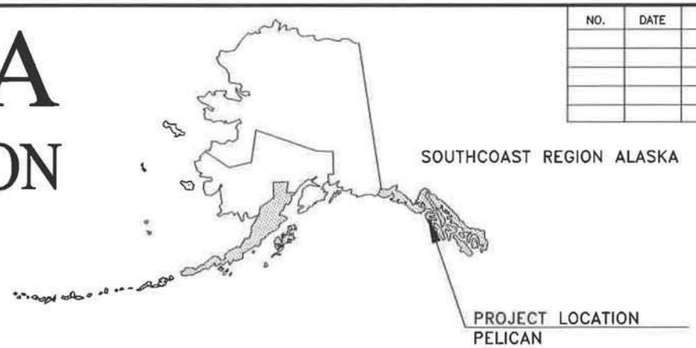
NO.	DATE	REVISIONS	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003205/SFHWY00063	2018	A1	18
			CDS ROUTE: N/A		MILEPOINT: N/A		
			LATITUDE: 57.96083°N		LONGITUDE: 136.2275° E		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT



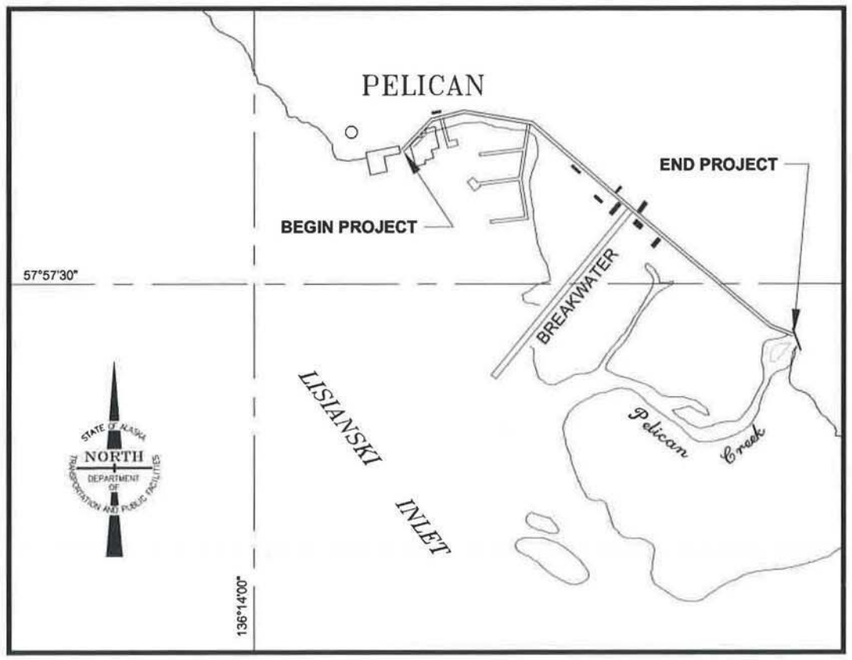
PROJECT SUMMARY	
PROJECT TYPE	BRIDGE REHABILITATION – NO ADDED CAPACITY
BRIDGE NO.	1268

PELICAN MAIN STREET BRIDGE (NO 1268) IMPROVEMENTS
PROJECT NO. 0003205 / SFHWY00063

July 11, 2018

The undersigned hereby certifies that this duplicated document is an exact and true copy of the original.
Cody Salmon

As-Builts
Contractor: Carver Construction
Project Engineer: Garret Gladsjo, P.E.;
Travis Eckhoff, P.E.; Dirk Christie
Project Manager: David Lowell, P.E.
Start Date: July 17, 2018
End Date: May 5, 2019



VICINITY MAP

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Garret N. Gladsjo Date: 4/06/2020

USE THESE PLANS IN CONJUNCTION WITH THE STATE OF ALASKA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2017 EDITION AND THE PROJECT SPECIAL PROVISIONS.

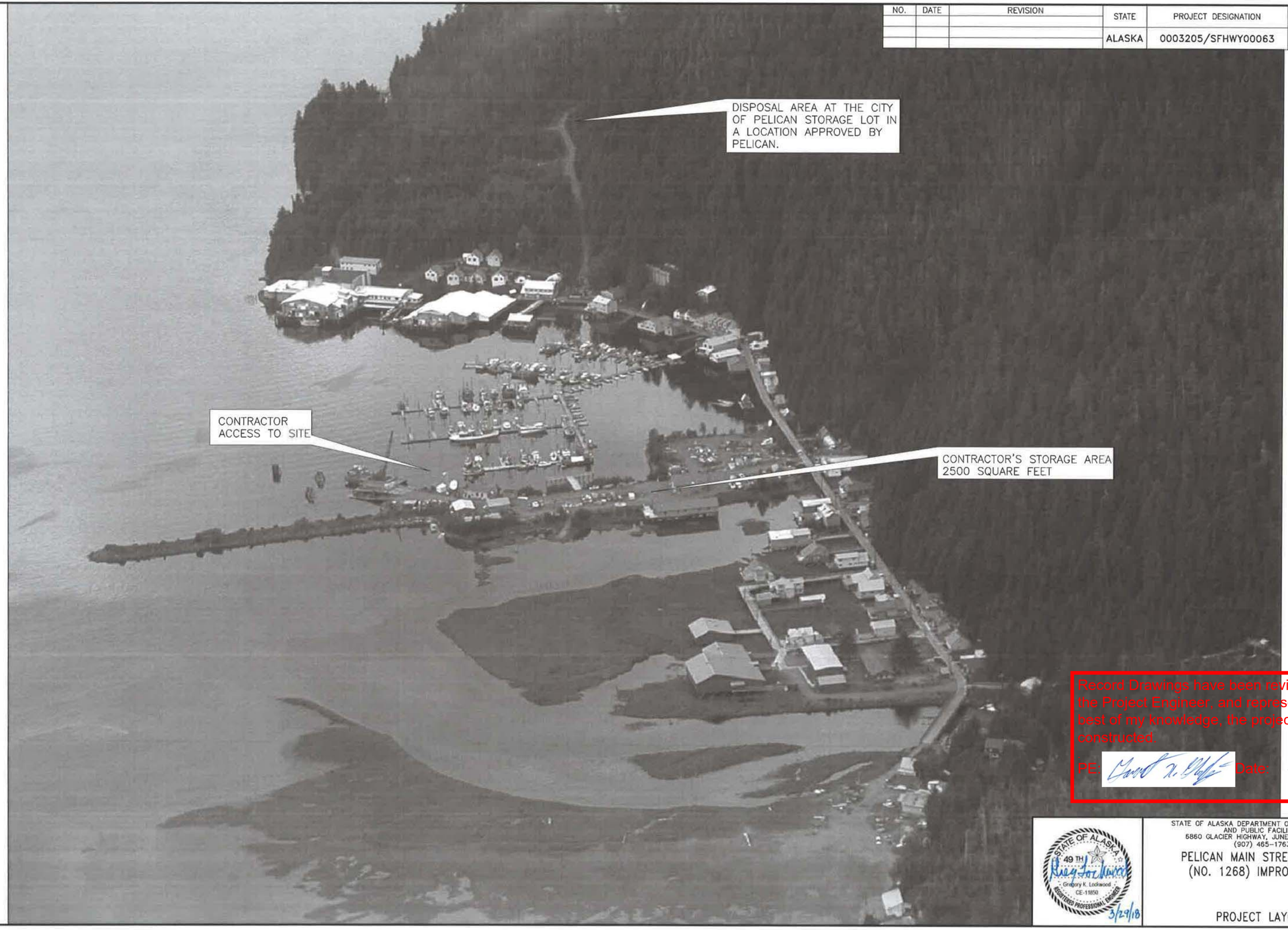
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

APPROVED: Pat Carroll 3-30-18
REGIONAL PRECONSTRUCTION ENGINEER — DATE
L. PAT CARROLL, P.E.

CONCUR: 30 Mar 2018
REGIONAL DIRECTOR — DATE
D. LANCE MEARIG, P.E.

FILE | Q:\Pel\SFHWY00063\Planset\00063_A1 Taht.dwg | DATE | 2/7/2018 15:14 | LAYOUT | TITLE SHEET | DESIGNED | GL | CHECKED | JW | DRAFTED | JW

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003205/SFHWY00063	2018	A2	18



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

STATE OF ALASKA
49 TH
Gregory K. Lockwood
CE-11850
REGISTERED PROFESSIONAL ENGINEER
3/29/18

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

PELICAN MAIN STREET BRIDGE (NO. 1268) IMPROVEMENTS

PROJECT LAYOUT

DATE | 2/27/2018 11:20 | LAYOUT | A2 | DESIGNED | JMW | CHECKED | GKL | DRAFTED | JMW

FILE | Q:\Pel\SFHWY00063\Planset\00063_A2_A3_C1.dwg

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003205/SFHWY00063	2018	A3	18

	RECOVERED	SET
BLM MONUMENT	✠	
GLO MONUMENT	✠	
USC&GS MONUMENT	▲	
PRIMARY MONUMENT	✠	✠
CENTERLINE MONUMENT IN CASING	⊕	⊕
PRIMARY R.O.W. MONUMENT	⊕	◒
BEARING OBJECT	✳	
MISCELLANEOUS MONUMENT	⊗	
LINE OF SIGHT MONUMENT		⊕
CONCRETE R.O.W. MONUMENT	■	
BENCHMARK		(BM)
REBAR AND CAP	⊙	◎
REBAR	•	•
IRON PIPE	●	
PK NAIL		▽
SPIKE		×
HUB AND TACK		⊡

CONSTRUCTION CENTERLINE — 5+00

MICELLANEOUS CENTERLINE — 10+00

STATION EQUATION — "L"48+97.23 POT BK= / "O"48+97.23 PC AHD

PROJECT RIGHT-OF-WAY LINE — ROW

EXISTING RIGHT-OF-WAY LINE

EXISTING PROPERTY LINE

CONTROLLED ACCESS LINE — C/A

EXISTING EASEMENT LINE

PROPOSED EASEMENT LINE

PROPOSED CUT SLOPE LIMIT

PROPOSED FILL SLOPE LIMIT

SECTION LINE

1/4 SECTION LINE

1/16 SECTION LINE

TOWNSHIP & RANGE LINE — T. 2 N. / T. 1 N. ; T. 1 E. ; T. 2 E.

MEANDER LINE — M1 M2 M3

	EXISTING	PROPOSED
SANITARY SEWER (FLOW DIRECTION →)		
FUEL LINE		
GAS LINE		
WATER LINE		
METER, VALVE, FIRE HYDRANT		
EXISTING STORM DRAIN (FLOW DIRECTION →)		
PROPOSED STORM DRAIN	S-10, S-11, P-11, P-10	
FIBER OPTIC LINE		
DIRECT BURIAL TELEPHONE CABLE		
DIRECT BURIAL ELECTRIC CABLE		
ELECTRIC LINE (OVERHEAD)		
POWER POLE LINE		
JOINT USE POWER & TELEPHONE		
TELEPHONE POLE LINE		
POLE ANCHOR		
STUB POLE (POWER OR TELEPHONE)		
TELEPHONE DUCT		
TELEPHONE PEDESTAL		
BURIED CABLE MARKER		
PIPELINE MARKER OR VALVE		
CATCH BASIN OR DROP INLET		
MANHOLE	MH	MH
SANITARY SEWER CLEAN OUT		
RIPRAP		
SPECIAL DITCH CENTERLINE		
HIGH TIDE LINE	HTL	HTL

	EXISTING	PROPOSED
ROADWAY/PAVEMENT EDGE		
FENCE		
CURB AND GUTTER		
DETECTABLE WARNINGS		
GUARDRAIL		
CULVERT PIPE		
SIGN		H
MAILBOX	MB	MB
RAILROAD TRACKS		
RAILROAD DEVICES	CROSS-BUCK, FLASHING LIGHT	CANTILEVER, SWITCH
TREE LINE		
WATER BOUNDARY		
ORDINARY HIGH WATER LINE		
FLOW CENTERLINE		
FLOW DIRECTION		
WETLANDS		
EXISTING BUILDINGS	H	H = HOUSE G = GARAGE M = MERCHANT/STORE B = BARN S = SHED P = PRIVY SS = SERVICE STATION W = WAREHOUSE
POST OR BOLLARD		
WELL OR MONITORING WELL		
SEPTIC PIPE		
FUEL TANK FILL PIPE/VENT		
SATELLITE DISH	SAT. DISH	
TEST HOLE	TH	
CONIFER TREE		
DECIDUOUS TREE		
GRAVE		
THERMOSIPHON		
PARKING METER		
VEHICLE PLUG-IN		
DELINEATOR/GUIDE MARKER		

	EXISTING	PROPOSED
JUNCTION BOX, TYPE IA		5
JUNCTION BOX, TYPE II		6
JUNCTION BOX, TYPE III		3
SIGNAL FACE, VEHICULAR	42	42
SIGNAL FACE, BACKPLATE	42	42
SIGNAL FACE, LEFT TURN, BACKPLATE	43	43
SIGNAL FACE, PEDESTRIAN	68 41	68 41
LOOP DETECTOR	33	73
VIDEO DETECTOR	2	2
RADAR DETECTOR	4	4A
OPTICOM DETECTOR	1	1
PEDESTRIAN PUSH BUTTON	1	1
SIGNAL POST W/O MAST ARM		1
SIGNAL POLE W/MAST ARM		4
SIGNAL CONTROLLER		
LOAD CENTER		
LUMINAIRE		N2
RIGID METAL CONDUIT		

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Gregory K. Lockwood Date: 4/06/2020

STATE OF ALASKA 49TH — Gregory K. Lockwood CE-11850 REGISTERED PROFESSIONAL ENGINEER — 3/29/18

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

PELICAN MAIN STREET BRIDGE (NO. 1268) IMPROVEMENTS

LEGEND / SYMBOLS

FILE | C:\Pel\SFHWY00063\Planset\00063_A2_A3_C1.dwg | LAYOUT | A3 | DESIGNED | JNW | CHECKED | GKL | DRAFTED | JNW | DATE | 2/27/2018 11:20

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003205/SFHWY00063	2018	C1	18

DRAFTED JMW | CHECKED GKL | DESIGNED JMW | LAYOUT C1 | DATE 2/27/2018 11:20 | FILE Q:\Pe\SFHWY00063\Planset\00063_A2_A3_C1.dwg

BASIC BID ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	PAY UNIT	QUANTITY
501(7)	Precast Concrete Member (Precast Footing)	Each	15
505(18)	Replace Treated Timber Piles	Each	16
505(19)	Pile Banding	Each	33
506(3)	Treated Timber	MBM	~~45.85~~ 58.976
506(15)	Redistribute Stringers	Each	~~184~~ 92
550(5)	Cast-in-Place Concrete Footing	Each	~~0~~ 8
550(6)	Concrete Column Repairs	Each	5
640(1)	Mobilization and Demobilization	Lump Sum	All Req'd
640(4)	Worker Meals and Lodging, or Per Diem	Lump Sum	All Req'd
641(1)	Erosion, Sediment and Pollution Control Administration	Lump Sum	All Req'd
641(3)	Temporary Erosion, Sediment and Pollution Control	Lump Sum	All Req'd
641(5)	Temporary Erosion, Sediment and Pollution Control by Directive	Contingent Sum	All Req'd
643(2)	Traffic Maintenance	Lump Sum	All Req'd

ADDITIVE ALTERNATE A ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	PAY UNIT	QUANTITY
506(3)-A	Treated Timber	MBM	~~16.12~~ 10.916
506(15)-A	Redistribute Stringers	Each	~~72~~ 40
640(1)-A	Mobilization and Demobilization	Lump Sum	All Req'd
640(4)-A	Worker Meals and Lodging, or Per Diem	Lump Sum	All Req'd
641(1)-A	Erosion, Sediment and Pollution Control Administration	Lump Sum	All Req'd
641(3)-A	Temporary Erosion, Sediment and Pollution Control	Lump Sum	All Req'd
641(5)-A	Temporary Erosion, Sediment and Pollution Control by Directive	Contingent Sum	All Req'd
643(2)-A	Traffic Maintenance	Lump Sum	All Req'd

ADDITIVE ALTERNATE B ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	PAY UNIT	QUANTITY
506(3)-B	Treated Timber	MBM	~~14.54~~ 26.840
506(15)-B	Redistribute Stringers	Each	~~71~~ 65
640(1)-B	Mobilization and Demobilization	Lump Sum	All Req'd
640(4)-B	Worker Meals and Lodging, or Per Diem	Lump Sum	All Req'd
641(1)-B	Erosion, Sediment and Pollution Control Administration	Lump Sum	All Req'd
641(3)-B	Temporary Erosion, Sediment and Pollution Control	Lump Sum	All Req'd
641(5)-B	Temporary Erosion, Sediment and Pollution Control by Directive	Contingent Sum	All Req'd
643(2)-B	Traffic Maintenance	Lump Sum	All Req'd

ITEMS ADDED BY CHANGE ORDER

ITEM NO.	DESCRIPTION	PAY UNIT	QUANTITY
506(16)	Temporary Shoring for Covered Walkway	Lump Sum	All Req'd
506(17)	Cut Existing Stringer Drift Pins	Each	28 ~~64~~
506(18a)	Sewer Cleanout Blocking	Each	0 ~~6~~
506(18b)	Sewer Cleanout Blocking	Each	9 ~~1~~
506(18c)	Sewer Cleanout Blocking	Each	4 ~~5~~
506(19)	Type A Utility Hanger	Each	59 ~~45~~
506(20)	Type B Utility Hanger	Each	3 ~~6~~
506(21)	Type C Utility Hanger	Each	6
506(22)	Remove Additional Planks	Each	15 ~~19~~
506(23)	Cut Existing Stringer Ends	Lump Sum	All Req'd
506(24)	Rotten Deck Plank Disposal	Each	924 ~~675~~
506(25)	Modify Bolts and Threaded Rods	Each	100
506(26)	Remove and Reinstall Deck Planks	Lump Sum	All Req'd
506(27)	Stringer Drift Pin Removal	Each	738 ~~327~~
506(28)	Redistribute Additional Stringers	Each	146 ~~95~~
506(29)	3x12 Deck Planks	Lump Sum	All Req'd
506(30)	Replacement Deck Planks	Lump Sum	All Req'd
506(31)	Boardwalk Leveling	Lump Sum	All Req'd
506(32)	Furnish Additional Treated Timber	Lump Sum	All Req'd

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

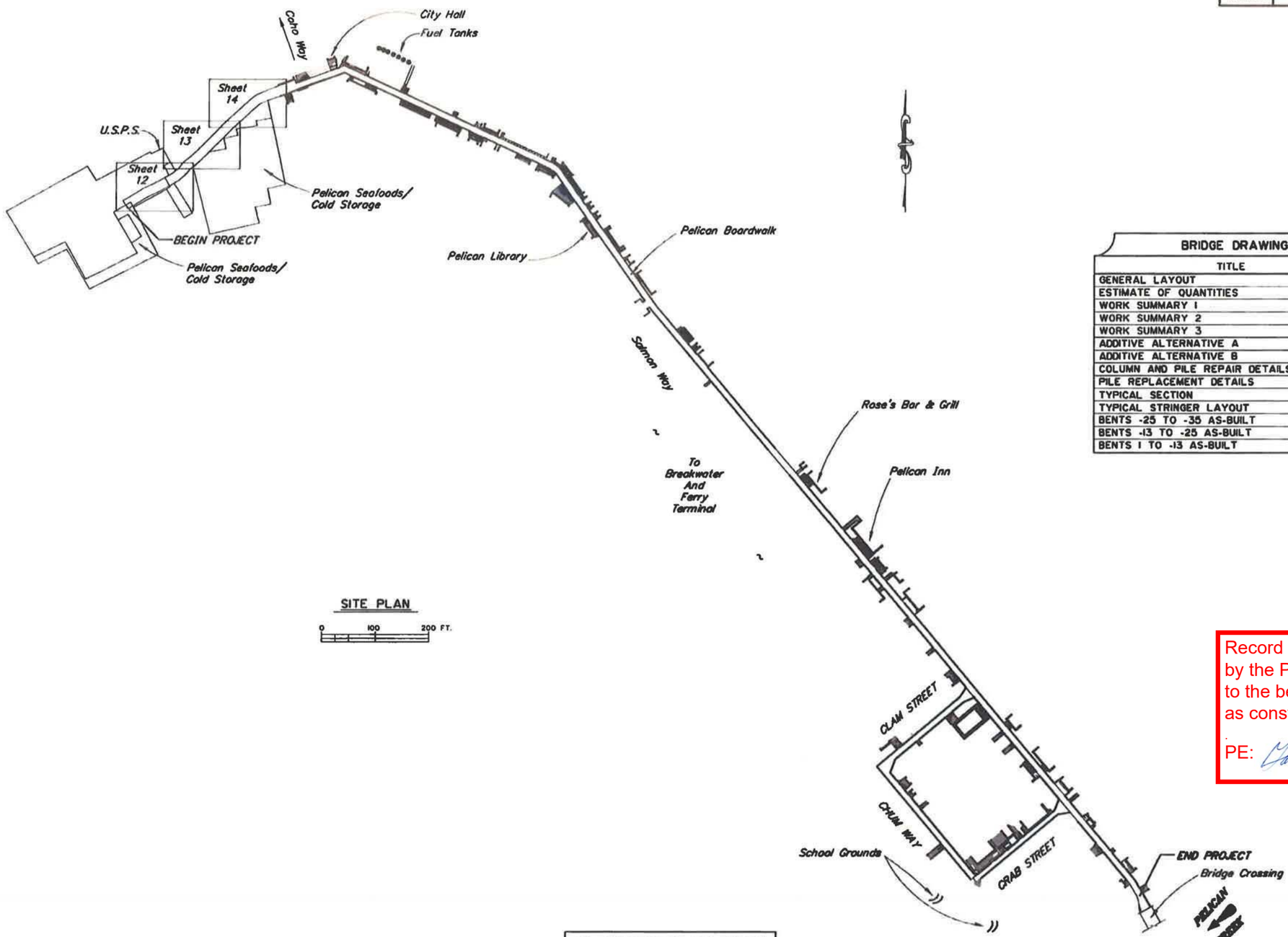
STATE OF ALASKA 49TH
Gregory K. Lockwood
CE-11850
REGISTERED PROFESSIONAL ENGINEER
3/29/18

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

PELICAN MAIN STREET BRIDGE
(NO. 1268) IMPROVEMENTS

ESTIMATE OF QUANTITIES

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N1	N14



SITE PLAN

0 100 200 FT.

BRIDGE DRAWING INDEX

TITLE	DWG. NO.
GENERAL LAYOUT	1
ESTIMATE OF QUANTITIES	2
WORK SUMMARY 1	3
WORK SUMMARY 2	4
WORK SUMMARY 3	5
ADDITIVE ALTERNATIVE A	6
ADDITIVE ALTERNATIVE B	7
COLUMN AND PILE REPAIR DETAILS	8
PILE REPLACEMENT DETAILS	9
TYPICAL SECTION	10
TYPICAL STRINGER LAYOUT	11
BENTS -25 TO -35 AS-BUILT	12
BENTS -13 TO -25 AS-BUILT	13
BENTS 1 TO -13 AS-BUILT	14

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

1. As-built Framing Based on Peratrovich, Nottingham & Drage Inspection October, 2002 for Bents 1-202.
2. Verify controlling field dimensions before ordering or fabricating any material.

REHABILITATION

DESIGNED BY: Nick Murray	CHECKED: Nick Murray	LAYOUT BY: Nick Murray	CHECKED BY: Hrant Harutyunyan
DRAWN BY: Ken Haas	CHECKED: Hrant Harutyunyan	SPECIFICATIONS BY: Nick Murray	P S & E COMPARED: Hrant Harutyunyan
QUANTITIES BY: Nick Murray	CHECKED: Nick Murray	APPROVAL RECOMMENDED BY:	Rich Pratt

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA 49TH NICHOLAS W. MURRAY 03-22-2018 SEB 119472 REGISTERED STRUCTURAL ENGINEER

MAIN STREET PELICAN
MAIN STREET
GENERAL LAYOUT

BRIDGE NO. 1268
DWG. NO. 1

R:\cad\1268\1268 rehab 2018-GL Thu, Mar/22/18 07:52am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N2	N14

BRIDGE BASIS OF ESTIMATE - BASE BID

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBSTRUCTURE	SUPER STRUCTURE	TOTAL
501(7)	Precast Concrete Member (Precast Footing)	EA	EA	15	---	15
505(18)	Replace Treated Timber Piles	EA	EA	16	---	16
505(19)	Pile Banding	EA	EA	33	---	33
506(3)	Treated Timber	MBM	MBM	1.27	44.58	45.85
506(15)	Redistribute Stringers	EA	EA	---	164	164
550(5)	Cast-In-Place Concrete Footing	EA	EA	9	---	9
550(6)	Conrete Column Repair	EA	EA	5	---	5

BRIDGE BASIS OF ESTIMATE - ADDITIVE ALTERNATE A

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBSTRUCTURE	SUPER STRUCTURE	TOTAL
506(3)	Treated Timber	MBM	MBM	---	16.12	16.12
506(15)	Redistribute Stringers	EA	EA	---	72	72

BRIDGE BASIS OF ESTIMATE - ADDITIVE ALTERNATE B

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBSTRUCTURE	SUPER STRUCTURE	TOTAL
506(3)	Treated Timber	MBM	MBM	---	14.54	14.54
506(15)	Redistribute Stringers	EA	EA	---	70	70

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

GENERAL NOTES

DESIGN:.....AASHTO LRFD Bridge Design Specifications 8th Edition.

LIVE LOAD:.....See Design Vehicle Schematics

REINFORCEMENT:.....ASTM A706, Grade 60, Fy = 60,000 psi

CAST-IN-PLACE CONCRETE:..Class B Concrete unless otherwise noted, f'c = 4,000 psi

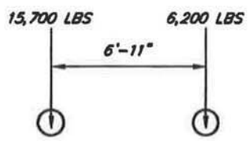
PRECAST CONCRETE:.....Class A Concrete unless otherwise noted, f'c = 4,000 psi

TREATED TIMBER:.....Douglas Fir No. 1

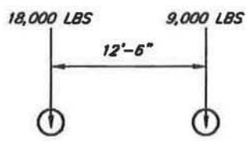
Existing stations, elevations and dimensions are based on as-built plans, and those plans may not show existing dimensions and conditions. Where dimensions of the proposed work depend on the existing bridge dimensions, field-verify the controlling dimensions and adjust proposed dimensions of the work to fit existing conditions.

ABBREVIATIONS

±	= Approximate Dimension, verify controlling field dimensions.	H.S.	= High Strength
		Hwy.	= Highway
		jnt.	= joint
°F	= degrees Fahrenheit	LBS	= Pounds
℄	= Centerline	LS	= Lump Sum
℗	= Plate	LF	= Linear Feet
&	= and	Lt.	= Left
@	= at	Max.	= Maximum
ø	= diameter	Min.	= Minimum
Approx.	= Approximate	MBM	= Thousand Board Feet
Abut.	= Abutment	N.A.	= Not Applicable
bot.	= bottom	n.f.	= near face
Br.	= Bridge	No.	= Number
btwn.	= between	O.H.W.	= Ordinary High Water
Brg.	= Bearings	PT.	= Pressure Treated
Clr.	= Clear, Clearance	PVC	= Point of Vertical Curve
CY	= Cubic Yard	PVI	= Point of Vertical Intersection
Dia., ø	= diameter	PVT	= Point of Vertical Tangent
D.H.W.	= Design High Water	Req'd.	= Required
D.H.I.	= Design High Ice	Rt.	= Right
D.I.P.	= Ductile Iron Pipe	Sht.	= Sheet
Dwg.	= Drawing	spc.	= space, spaces, spaced
EA, ea.	= each	Sta.	= Station
e.f.	= each face	SY	= Square Yard
e.s.	= each side	Symm.	= Symmetric, Symmetrical
Elev.	= Elevation	Typ.	= Typical
eq.	= equally	U.N.O.	= Unless Noted Otherwise
f.f.	= far face	vert.	= vertical
ft.	= feet	w/	= with
Grdr.	= Girder		



STRENGTH I DESIGN VEHICLE SCHEMATIC



STRENGTH II DESIGN VEHICLE SCHEMATIC

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

R:\cad\1268\1268 rehab 2018-EOG Wed, Mar/28/18 01:43pm

DESIGNED BY: Nick Murray	CHECKED: Hrant Horutyunyan	REHABILITATION
DRAWN BY: Ken Haas	CHECKED: Nick Murray	
QUANTITIES BY: Nick Murray	CHECKED: Hrant Horutyunyan	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA — NICHOLAS W. MURRAY — 03/28/2018 — 19472 — REGISTERED STRUCTURAL ENGINEER

MAIN STREET PELICAN

MAIN STREET

ESTIMATE OF QUANTITIES

BRIDGE NO. 1268

DWG. NO. 2

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N3	N14

Base Bid - Pile/Footing/Cap Beam Work Summary

	Replace Treated Timber Piles (12" Dia.)			Replace Pile Cap Beam (12"x12")		Replace Cross Bracing (3"x8")		Pile Banding	CIP Concrete Footing	Precast Concrete Footing	Concrete Column Repair	Shim Pile at Cap
	Approximate height above ground			Approx. length of cap beam (ft-in)	Approx. board feet (ft-in)	Approx. brace length (ft-in)	Approx. board feet					
	Left Pile (ft-in)	Center Pile (ft-in)	Right Pile (ft-in)									
Bent No.	505(18)			506(3)		506(3)		505(19)	550(5)	501(7)	550(6)	Subsidiary
-30											Lt	
-29											Lt	
-28											Lt	
-27											Lt	
-26											Lt	
-21								Rt				
-18									Lt			
-17			10-0							Rt		
-15									Rt			
-14									Rt			
-13	3-0								Lt			
-11								Lt				
-8									Lt			
-4								Lt/Rt				
5	6-3			12-0	144					Lt		
6									Center			Center
22	6-2									Lt		
24	6-6									Lt		
27						13-6	27					
36				12-0	144							
39								Lt				
53									Lt			
55								Lt				
63								Rt				
64								Lt				
65				12-0	144			Lt				
66			13-7	12-0	144			Lt		Rt		
67	12-9					15-0	30			Lt		
68						15-0	30					
74	12-2			12-0	144					Lt		
75	11-9								Rt	Lt		

Base Bid - Pile/Footing/Cap Beam Work Summary

	Replace Treated Timber Piles (12" Dia.)			Replace Pile Cap Beam (12"x12")		Replace Cross Bracing (3"x8")		Pile Banding	CIP Concrete Footing	Precast Concrete Footing	Concrete Column Repair	Shim Pile at Cap
	Approximate height above ground			Approx. length of cap beam (ft-in)	Approx. board feet (ft-in)	Approx. brace length (ft-in)	Approx. board feet					
	Left Pile (ft-in)	Center Pile (ft-in)	Right Pile (ft-in)									
Bent No.	505(18)			506(3)		506(3)		505(19)	550(5)	501(7)	550(6)	Subsidiary
80			12-6	12-0	144					Rt		
82								Rt				
83	11-6									Lt		
89						15-0	30	Rt				
107								Rt				
115								Lt				
116								Rt				
118								Lt				
123			10-0							Rt		
125	9-3									Lt		
129								Lt				
130								Lt				
134			7-2							Rt		
135									Lt			
138								Rt				
141								Lt				
144								Rt				
146												Lt
147				12-0	144							
159			6-0							Rt		
178								Lt				
L28								Lt/Rt				
L41		4-4		12-0	144					Center		
L44								Lt				
L47								Lt				
L57								Rt				
L58								Lt				
L61								Lt/Rt				
L67								Lt/Rt				
L69								Lt				

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

R:\cad\1268\1268 rahob 2018-WS1 Wed, Mar/28/18 01:36pm

DESIGNED BY: Nick Murray	CHECKED: Grant Haruljanyan
DRAWN BY: Rha Hare	CHECKED: Nick Murray
QUANTITIES BY: Nick Murray	CHECKED: Grant Haruljanyan

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA — NICHOLAS W. MURRAY — 03-28-2018 — REGISTERED ENGINEER

MAIN STREET PELICAN

MAIN STREET

WORK SUMMARY 1

BRIDGE NO. 1268

DWG. NO. 3

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00083	2018	N4	N14

Base Bid - Stringer Replacement/Additions/Redistribution 506(3) & 506(15)

Span	From bent	To bent	Approx. span length (ft)	Approx. # of existing 4x12 stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max O.C. Spacing between a 4x12 and an adjacent stringer (in)	Max O.C. Spacing between adjacent 6x12 stringers (in)
-35	-35	-34	12	11	-	4x12	11	528	11	-
-34	-34	-33	11	14	-	4x12	6	264	12	-
-33	-33	-32	12	12	-	4x12	10	480	11	-
-32	-32	-31	10	12	-	4x12	6	240	13 1/2	-
-31	-31	-30	10	10	-	4x12	8	320	13 1/2	-
-30	-30	-29	10	11	-	4x12	7	280	13 1/2	-
-29	-29	-28	11	10	-	4x12	10	440	12	-
-28	-28	-27	11	11	-	4x12	9	396	12	-
-27	-27	-26	13	15	-	4x12	9	468	10	-
-26	-26	-25	11	15	-	4x12	5	220	12	-
-25	-25	-24	11	9	-	4x12	11	484	12	-
-24	-24	-23	9	8	-	4x12	8	288	15	-
-23	-23	-22	11	9	-	4x12	11	484	12	-
-22	-22	-21	12	9	-	4x12	13	624	11	-
-21	-21	-20	11	9	2	4x12	13	572	12	-
-20	-20	-19	10	9	4	4x12	13	520	13 1/2	-
-19	-19	-18	10	12	-	4x12	6	240	13 1/2	-
-18	-18	-17	11	12	-	4x12	8	352	12	-
-17	-17	-16	10	12	1	4x12	7	280	13 1/2	-
-16	-16	-15	11	10	1	4x12	11	484	12	-
-15	-15	-14	10	7	-	4x12	11	440	13 1/2	-
-14	-14	-13	11	6	-	4x12	14	616	12	-
-13	-13	-12	10	6	2	4x12	14	560	13 1/2	-
-12	-12	-11	11	6	1	4x12	15	660	12	-
-11	-11	-10	10	6	3	4x12	15	600	13 1/2	-
-10	-10	-9	12	6	1	4x12	17	816	11	-
-9	-9	-8	11	6	2	4x12	16	704	12	-
-8	-8	-7	11	6	1	4x12	15	660	12	-
-7	-7	-6	11	8	2	4x12	14	616	12	-
-6	-6	-5	10	6	1	4x12	13	520	13 1/2	-
-5	-5	-4	8	12	-	4x12	3	96	17	-
-4	-4	-3	8	12	-	4x12	3	96	17	-
-3	-3	-2	11	10	7	4x12	17	748	12	-
-2	-2	-1	11	15	3	4x12	8	352	12	-
-1	-1	0	10	15	1	4x12	4	160	13 1/2	-
0	0	1	11	12	-	4x12	8	352	12	-
1	1	2	11	9	-	4x12	11	484	12	-
2	2	3	10	9	-	4x12	9	360	13 1/2	-
3	3	4	10	9	2	4x12	11	440	13 1/2	-
4	4	5	16	11	-	6x12	4	384	7 1/2	17
5	5	6	18	12	-	6x12	5	540	6	15 1/2
6	6	7	19	12	-	6x12	5	570	5 1/2	14 1/2

Base Bid - Stringer Replacement/Additions/Redistribution 506(3) & 506(15)

Span	From bent	To bent	Approx. span length (ft)	Approx. # of existing 4x12 stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max O.C. Spacing between a 4x12 and an adjacent stringer (in)	Max O.C. Spacing between adjacent 6x12 stringers (in)
7	7	8	18	11	-	6x12	5	540	6	15 1/2
8	8	9	13	14	2	4x12	3	156	10	-
9	9	10	11	12	2	4x12	2	88	12	-
10	10	11	19	13	1	6x12	5	570	5 1/2	14 1/2
11	11	12	16	12	1	6x12	3	288	7 1/2	17
12	12	13	18	12	2	6x12	5	540	6	15 1/2
13	13	14	16	13	2	6x12	3	288	7 1/2	17
14	14	15	17	13	1	6x12	4	408	6 1/2	17
15	15	16	19	13	1	6x12	5	570	5 1/2	14 1/2
16	16	17	15	12	2	6x12	3	270	8	17
17	17	18	18	12	-	6x12	5	540	6	15 1/2
18	18	19	17	13	-	6x12	4	408	6 1/2	17
19	19	20	16	12	1	6x12	3	288	7 1/2	17
20	20	21	18	12	-	6x12	5	540	6	15 1/2
21	21	22	16	12	2	6x12	3	288	7 1/2	17
22	22	23	17	12	1	6x12	4	408	6 1/2	17
23	23	24	17	12	-	6x12	4	408	6 1/2	17
24	24	25	18	13	2	6x12	4	432	6	15 1/2
25	25	26	16	12	-	6x12	3	288	7 1/2	17
26	26	27	17	13	1	6x12	4	408	6 1/2	17
27	27	28	17	12	-	6x12	4	408	6 1/2	17
28	28	29	17	12	1	6x12	4	408	6 1/2	17
29	29	30	16	12	1	6x12	3	288	7 1/2	17
30	30	31	18	14	-	6x12	4	432	6	15 1/2
31	31	32	18	12	1	6x12	5	540	6	15 1/2
32	32	33	17	12	1	6x12	4	408	6 1/2	17
33	33	34	17	12	2	6x12	4	408	6 1/2	17
34	34	35	17	12	2	6x12	4	408	6 1/2	17
35	35	36	12	12	1	4x12	3	144	11	-
36	36	37	10	12	-	-	-	-	13 1/2	-
37	37	38	7	10	-	-	-	-	19 1/2	-
38	38	39	7	10	1	-	-	-	19 1/2	-
39	39	40	13	10	-	4x12	5	260	10	-
40	40	41	10	11	-	-	-	-	13 1/2	-
41	41	42	9	11	-	-	-	-	15	-
42	42	43	10	11	2	4x12	2	80	13 1/2	-
43	43	44	10	11	2	4x12	2	80	13 1/2	-
44	44	45	11	11	2	4x12	3	132	12	-
45	45	46	10	11	-	-	-	-	13 1/2	-
46	46	47	10	12	-	-	-	-	13 1/2	-
47	47	48	10	12	-	-	-	-	13 1/2	-
48	48	49	10	12	-	-	-	-	13 1/2	-

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

NOTES:

† *If (E) remaining undamaged stringers meet spacing requirements, damaged stringers need not be removed.*

† *If (E) stringers meet maximum spacing requirements, no work required.*

R:\cad\1268\1268 rehab 2018-WS2 Wed, Mar/28/18 01:36pm

DESIGNED BY: Nick Murray	CHECKED: Hrant Havlyanyan		
DRAWN BY: Ken Hume	CHECKED: Nick Murray		
QUANTITIES BY: Nick Murray	CHECKED: Hrant Havlyanyan		

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA 49TH NICHOLAS W. MURRAY 03-28-2018 SEE 10472 REGISTERED STRUCTURAL ENGINEER

MAIN STREET PELICAN

MAIN STREET

WORK SUMMARY 2

BRIDGE NO. 1268

DWG. NO. 4

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N4	N14

Base Bid - Stringer Replacement/Additions/Redistribution 506(3) & 506(15) ⚠

Span	From bent	To bent	Approx. max span length (ft)	Approx. # of existing stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max. spacing between a 3x12 and any other stringer (in.)	Max. spacing between a 4x12 and a 4x12 or 6x12 (in.)	Max. spacing between a 6x12 and another 6x12 stringer (in.)	Special Notes
-35	-35	-34	12	14	-	4x12	3	144	7 1/2	11	-	
-34	-34	-33	11	13	-	4x12	3	132	8 1/2	12	-	
-33	-33	-32	13	12	-	4x12	6	312	7	10	-	
-32	-32	-31	10	12	-	4x12	2	80	9 1/2	13 1/2	-	
-31	-31	-30	10	12	-	4x12	2	80	9 1/2	13 1/2	-	
-30	-30	-29	10	12	-	4x12	2	80	9 1/2	13 1/2	-	
-29	-29	-28	11	14	-	4x12	2	88	8 1/2	12	-	
-28	-28	-27	11	13	-	4x12	3	132	8 1/2	12	-	
-27	-27	-26	13	14	-	4x12	4	208	7	10	-	
-26	-26	-25	11	16	-	-	-	-	8 1/2	12	-	Redistribute Only
-25	-25	-24	11	18	-	-	-	-	-	-	-	No Stringer Work
-24	-24	-23	9	15	-	-	-	-	10 1/2	15	-	Redistribute Only
-23	-23	-22	10	15	-	-	-	-	9 1/2	13 1/2	-	Redistribute Only
-22	-22	-21	11	14	-	4x12	3	132	8 1/2	12	-	
-21	-21	-20	11	15	2	-	-	-	8 1/2	12	-	Redistribute Only
-20	-20	-19	10	16	4	-	-	-	9 1/2	13 1/2	-	Redistribute Only
-19	-19	-18	10	17	-	-	-	-	9 1/2	13 1/2	-	Redistribute Only
-18	-18	-17	11	14	-	-	-	-	8 1/2	12	-	Redistribute Only
-17	-17	-16	10	12	1	-	-	-	9 1/2	13 1/2	-	Redistribute Only
-16	-16	-15	11	11	1	4x12	3	132	8 1/2	12	-	
-15	-15	-14	10	11	-	-	-	-	9 1/2	13 1/2	-	Redistribute Only
-14	-14	-13	11	13	-	-	-	-	8 1/2	12	-	Redistribute Only
-13	-13	-12	10	16	2	-	-	-	9 1/2	13 1/2	-	Redistribute Only
-12	-12	-11	11	16	1	-	-	-	8 1/2	12	-	Redistribute Only
-11	-11	-10	10	16	3	-	-	-	9 1/2	13 1/2	-	Redistribute Only
-10	-10	-9	12	15	1	4x12	4	192	7 1/2	11	-	
-9	-9	-8	11	11	2	4x12	4	176	8 1/2	12	-	
-8	-8	-7	10	12	1	-	-	-	9 1/2	13 1/2	-	Redistribute Only
-7	-7	-6	11	8	2	4x12	7	308	8 1/2	12	-	
-6	-6	-5	10	6	1	4x12	6	240	9 1/2	13 1/2	-	
-5	-5	-4	8	12	-	-	-	-	12	17	-	Redistribute Only
-4	-4	-3	7	12	-	-	-	-	-	-	-	No Stringer Work
-3	-3	-2	8	12	7	4x12	12	384	12	17	-	
-2	-2	-1	11	11	3	4x12	4	176	8 1/2	12	-	
-1	-1	0	10	10	1	-	-	-	9 1/2	13 1/2	-	Redistribute Only
0	0	1	10	9	-	4x12	3	120	9 1/2	13 1/2	-	
1	1	2	10	10	-	-	-	-	9 1/2	13 1/2	-	Redistribute Only
2	2	3	10	6	1	4x12	5	200	9 1/2	13 1/2	-	
3	3	4	10	10	2	4x12	5	200	9 1/2	13 1/2	-	
4	4	5	17	18	3	6x12	5	510	4 1/2	6 1/2	17	
5	5	6	17	16	-	6x12	3	306	4 1/2	6 1/2	17	
6	6	7	17	11	-	6x12	4	408	4 1/2	6 1/2	17	
7	7	8	17	10	-	6x12	4	408	4 1/2	6 1/2	17	

Base Bid - Stringer Replacement/Additions/Redistribution 506(3) & 506(15) ⚠

Span	From bent	To bent	Approx. max span length (ft)	Approx. # of existing stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max. spacing between a 3x12 and any other stringer (in.)	Max. spacing between a 4x12 and a 4x12 or 6x12 (in.)	Max. spacing between a 6x12 and another 6x12 stringer (in.)	Special Notes
7	7	8	17	10	-	6x12	4	408	4 1/2	6 1/2	17	
8	8	9	18	12	2	6x12	8	864	4 1/2	6	15 1/2	
9	9	10	11	12	2	4x12	3	132	8 1/2	12	-	
10	10	11	18	13	1	6x12	6	648	4 1/2	6	15 1/2	
11	11	12	17	12	1	6x12	5	510	4 1/2	6 1/2	17	
12	12	13	17	11	2	6x12	7	714	4 1/2	6 1/2	17	
13	13	14	18	12	2	6x12	7	756	4 1/2	6	15 1/2	
14	14	15	18	12	1	6x12	6	648	4 1/2	6	15 1/2	
15	15	16	17	13	1	6x12	5	510	4 1/2	6 1/2	17	
16	16	17	16	12	2	6x12	5	480	5	7 1/2	17	
17	17	18	17	11	1	6x12	6	612	4 1/2	6 1/2	17	
18	18	19	17	13	-	6x12	4	408	4 1/2	6 1/2	17	
19	19	20	16	12	1	6x12	4	384	5	7 1/2	17	
20	20	21	18	18	-	6x12	3	324	4 1/2	6	15 1/2	
21	21	22	17	19	2	6x12	3	306	4 1/2	6 1/2	17	
22	22	23	17	12	1	6x12	5	510	4 1/2	6 1/2	17	
23	23	24	17	12	-	6x12	4	408	4 1/2	6 1/2	17	
24	24	25	17	12	2	6x12	6	612	4 1/2	6 1/2	17	
25	25	26	17	12	-	6x12	4	408	4 1/2	6 1/2	17	
26	26	27	17	18	1	6x12	3	306	4 1/2	6 1/2	17	
27	27	28	17	18	-	6x12	2	204	4 1/2	6 1/2	17	
28	28	29	17	12	1	6x12	5	510	4 1/2	6 1/2	17	
29	29	30	17	12	1	6x12	5	510	4 1/2	6 1/2	17	
30	30	31	17	12	-	6x12	4	408	4 1/2	6 1/2	17	
31	31	32	17	12	1	6x12	6	612	4 1/2	6 1/2	17	
32	32	33	17	12	1	6x12	5	510	4 1/2	6 1/2	17	
33	33	34	17	12	2	6x12	6	612	4 1/2	6 1/2	17	
34	34	35	16	12	2	6x12	5	480	5	7 1/2	17	
35	35	36	13	10	1	4x12	8	416	7	10	-	
36	36	37	12	12	-	4x12	3	144	7 1/2	11	-	
37	37	38	8	19	-	-	-	-	12	17	-	Redistribute Only
38	38	39	9	10	1	4x12	3	108	10 1/2	15	-	
39	39	40	11	9	-	4x12	5	220	8 1/2	12	-	
40	40	41	10	11	-	4x12	2	80	9 1/2	13 1/2	-	
41	41	42	10	11	-	4x12	2	80	9 1/2	13 1/2	-	
42	42	43	9	12	2	4x12	4	144	10 1/2	15	-	
43	43	44	10	11	2	4x12	6	240	9 1/2	13 1/2	-	
44	44	45	11	12	2	4x12	6	264	8 1/2	12	-	
45	45	46	11	11	-	4x12	3	132	8 1/2	12	-	

REVISIONS			
No.	Date	By	Description
1	12/6/18	NWM	Table Revisions

NOTES:

1. Exterior stringer spacing may be 150% of specified spacing

DESIGNED BY: Nick Murray	CHECKED: Hrant Harutyunyan	**REHABILITATION**
DRAWN BY: Ken Huse	CHECKED: Nick Murray	
QUANTITIES BY: Nick Murray	CHECKED: Hrant Harutyunyan	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA 49TH NICHOLAS W. MURRAY 12-07-2018 SE# 119472 REGISTERED STRUCTURAL ENGINEER

MAIN STREET PELICAN

MAIN STREET

WORK SUMMARY 2

BRIDGE NO. 1268

DWG. NO. 4

U:\Current Work\1268 Pelican Boardwalk\Stringer CO-WS2 Fri, Dec/07/18 08:49am

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge,the project as constructed.
PE: Date: 4/06/2020

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N4A	N14

Base Bid - Stringer Replacement/Additions/Redistribution SD6(3) & SD6(15) ⚠⚠⚠

Span	From bent	To bent	Approx. max span length (ft)	Approx. # of existing stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max. spacing between a 8x12 and any other stringer (in.)	Max. spacing between a 4x12 and a 4x12 (in.)	Special Notes
-35	-35	-34	12	14	-	4x12	11	528	7 1/2	11	
-34	-34	-33	11	13	-	4x12	7	308	8 1/2	12	
-33	-33	-32	13	12	-	4x12	11	572	7	10	
-32	-32	-31	10	12	-	4x12	7	280	9 1/2	13 1/2	
-31	-31	-30	10	12	-	4x12	5	240	9 1/2	13 1/2	
-30	-30	-29	10	12	-	4x12	9	280	9 1/2	13 1/2	
-29	-29	-28	11	14	-	4x12	9	396	8 1/2	12	
-28	-28	-27	11	13	-	4x12	9	396	8 1/2	12	
-27	-27	-26	13	14	-	4x12	8	416	7	10	
-25	-25	-24	11	16	-	-	-	-	-	-	No Stringer Work
-22	-22	-21	11	14	-	4x12	9	396	8 1/2	12	
-16	-15	-15	11	11	1	4x12	5	220	8 1/2	12	
-10	-10	-9	12	15	1	4x12	7	336	7 1/2	11	
-9	-9	-8	11	11	2	4x12	4	176	8 1/2	12	
-7	-7	-6	11	8	2	4x12	8	352	8 1/2	12	
-6	-6	-5	10	8	1	4x12	7	280	9 1/2	13 1/2	
-4	-4	-3	7	12	-	-	-	-	-	-	No Stringer Work
-3	-3	-2	8	12	7	4x12	6	256	12	17	
-2	-2	-1	11	11	3	4x12	5	220	8 1/2	12	
0	0	1	10	9	-	4x12	7	280	9 1/2	13 1/2	
2	2	3	10	6	1	4x12	6	240	9 1/2	13 1/2	
3	3	4	10	10	2	4x12	6	240	9 1/2	13 1/2	
4	4	5	17	16	-	-	-	-	-	-	No Stringer Work
5	5	6	17	16	-	-	-	-	-	-	No Stringer Work
6	6	7	17	11	-	6x12	5	510	-	-	See Notes
7	7	8	17	10	-	6x12	6	612	-	-	See Notes
8	8	9	18	12	2	6x12	6	864	-	-	See Notes
9	9	10	11	12	2	4x12	4	176	8 1/2	12	
10	10	11	18	13	1	6x12	7	756	-	-	See Notes
11	11	12	17	12	1	6x12	5	510	-	-	See Notes
12	12	13	17	11	2	6x12	6	612	-	-	See Notes
13	13	14	18	12	2	6x12	7	756	-	-	See Notes
14	14	15	18	12	1	6x12	7	756	-	-	See Notes
15	15	16	17	13	1	6x12	4	408	-	-	See Notes
16	16	17	16	12	2	6x12	4	384	-	-	See Notes
17	17	18	17	11	1	6x12	5	510	-	-	See Notes
18	18	19	17	13	-	6x12	5	510	-	-	See Notes
19	19	20	16	12	1	6x12	5	480	-	-	See Notes
20	20	21	16	16	-	-	-	-	-	-	No Stringer Work
21	21	22	17	19	-	-	-	-	-	-	No Stringer Work
22	22	23	17	12	1	6x12	5	510	-	-	See Notes

Base Bid - Stringer Replacement/Additions/Redistribution SD6(9) & SD6(16) ⚠⚠⚠

Span	From bent	To bent	Approx. max span length (ft)	Approx. # of existing stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max. spacing between a 8x12 and any other stringer (in.)	Max. spacing between a 4x12 and a 4x12 (in.)	Special Notes
23	23	24	17	12	-	6x12	6	612	-	-	See Notes
24	24	25	17	12	2	6x12	4	408	-	-	See Notes
25	25	26	17	12	-	6x12	5	510	-	-	See Notes
26	26	27	17	16	-	-	-	-	-	-	No Stringer Work
27	27	28	17	16	-	-	-	-	-	-	No Stringer Work
28	28	29	17	12	1	6x12	5	510	-	-	See Notes
29	29	30	17	12	1	6x12	4	408	-	-	See Notes
30	30	31	17	12	-	6x12	5	510	-	-	See Notes
31	31	32	17	12	1	6x12	3	306	-	-	See Notes
32	32	33	17	12	1	6x12	4	408	-	-	See Notes
33	33	34	17	12	2	6x12	5	510	-	-	See Notes
34	34	35	16	12	2	6x12	2	192	-	-	See Notes
81	81	82	9	16	2	4x12	7	252	10 1/2	15	
82	82	83	10	16	1	4x12	11	440	9 1/2	13 1/2	
83	83	84	11	15	-	-	-	-	-	-	No Stringer Work
86	86	87	17	19	-	-	-	-	-	-	No Stringer Work
87	87	88	17	16	-	-	-	-	-	-	No Stringer Work
88	88	89	17	19	-	-	-	-	-	-	No Stringer Work
89	89	90	17	16	-	-	-	-	-	-	No Stringer Work
90	90	91	17	19	-	-	-	-	-	-	No Stringer Work
91	91	92	16	12	1	6x12	2	192	-	-	See Notes
92	92	93	17	19	-	-	-	-	-	-	No Stringer Work
93	93	94	16	16	-	-	-	-	-	-	No Stringer Work
94	94	95	17	12	1	6x12	4	408	-	-	See Notes
95	95	96	17	19	-	-	-	-	-	-	No Stringer Work
96	96	97	17	20	-	-	-	-	-	-	No Stringer Work
97	97	98	9	9	-	4x12	6	288	10 1/2	15	
98	98	99	8	9	-	4x12	8	256	12	17	
99	99	100	10	9	-	4x12	8	320	9 1/2	13 1/2	

REVISIONS			
No.	Date	By	Description
1	12/6/18	NWM	Table Revisions
2	1/15/19	NWM	Table Revisions (No redistr.)
3	2/5/19	NWM	Table Revisions (6x12 changes)

SFHWY00063/0003205
Change Order No. 5
Attachment 1

NOTES:
1. See "WORK SUMMARY 3" dwg. for notes.

DESIGNED BY: Nick Murray
DRAWN BY: Nick Hom
QUANTITIES BY: Nick Murray
CHECKED: Hrant Hovhannisyan
CHECKED: Nick Murray
CHECKED: Hrant Hovhannisyan

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

MAIN STREET PELICAN
MAIN STREET
WORK SUMMARY 2

BRIDGE NO. 1268
DWG. NO. 4

U:\Current Work\1268 Pelican Boardwalk\Stringer SD-N32 Wed, Feb/06/19 08:24am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N5	N14

Base Bid - Stringer Replacement/Additions/Redistribution 506(3) & 506(15)

Span	From bent	To bent	Approx. span length (ft)	Approx. # of existing 4x12 stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max O.C. Spacing between a 4x12 and an adjacent stringer (in)	Max O.C. Spacing between adjacent 6x12 stringers (in)	
49	49	50	9	13	-	-	-	-	15	-	†
50	50	51	11	10	-	4x12	2	88	12	-	
51	51	52	9	10	-	-	-	-	15	-	†
52	52	53	10	10	-	4x12	1	40	13 1/2	-	
53	53	54	10	10	1	4x12	2	80	13 1/2	-	
54	54	55	9	10	-	-	-	-	15	-	†
55	55	56	10	10	-	4x12	1	40	13 1/2	-	
56	56	57	10	11	-	-	-	-	13 1/2	-	†
57	57	58	10	11	-	-	-	-	13 1/2	-	†
58	58	59	10	12	-	-	-	-	13 1/2	-	†
59	59	60	10	12	-	-	-	-	13 1/2	-	†
60	60	61	9	11	-	-	-	-	15	-	†
61	61	62	10	11	-	-	-	-	13 1/2	-	†
62	62	63	10	12	1	-	-	-	13 1/2	-	†
63	63	64	9	12	-	-	-	-	15	-	†
64	64	65	10	12	-	-	-	-	13 1/2	-	†
65	65	66	9	12	-	-	-	-	15	-	†
66	66	67	9	11	-	-	-	-	15	-	†
67	67	68	11	10	2	4x12	4	176	12	-	
68	68	69	10	10	-	4x12	1	40	13 1/2	-	
69	69	70	10	10	1	4x12	2	80	13 1/2	-	
70	70	71	10	10	4	4x12	5	200	13 1/2	-	
71	71	72	11	10	2	4x12	4	176	12	-	
72	72	73	10	10	1	4x12	2	80	13 1/2	-	
73	73	74	10	10	1	4x12	2	80	13 1/2	-	
74	74	75	9	10	3	4x12	3	108	15	-	
75	75	76	9	10	3	4x12	3	108	15	-	
76	76	77	10	10	-	4x12	1	40	13 1/2	-	
77	77	78	11	10	-	4x12	2	88	12	-	
78	78	79	9	10	2	4x12	2	72	15	-	
79	79	80	11	10	1	4x12	3	132	12	-	
80	80	81	8	8	2	4x12	3	96	17	-	
81	81	82	10	8	2	4x12	5	200	13 1/2	-	
82	82	83	10	8	1	4x12	4	160	13 1/2	-	
83	83	84	11	8	1	4x12	5	220	12	-	
84	Bents 84 and 85 do not exist										
85											
86	86	87	17	12	-	6x12	4	408	6 1/2	17	
87	87	88	17	12	-	6x12	4	408	6 1/2	17	
88	88	89	17	12	-	6x12	4	408	6 1/2	17	
89	89	90	18	12	-	6x12	5	540	6	15 1/2	

Base Bid - Stringer Replacement/Additions/Redistribution 506(3) & 506(15)

Span	From bent	To bent	Approx. span length (ft)	Approx. # of existing 4x12 stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max O.C. Spacing between a 4x12 and an adjacent stringer (in)	Max O.C. Spacing between adjacent 6x12 stringers (in)	
90	90	91	16	12	2	6x12	3	288	7 1/2	17	
91	91	92	16	11	1	6x12	4	384	7 1/2	17	
92	92	93	18	12	-	6x12	5	540	6	15 1/2	
93	93	94	18	12	-	6x12	5	540	6	15 1/2	
94	94	95	16	12	1	6x12	3	288	7 1/2	17	
95	95	96	17	12	-	6x12	4	408	6 1/2	17	
96	96	97	17	12	-	6x12	4	408	6 1/2	17	
97	97	98	9	7	-	4x12	3	108	15	-	
98	98	99	8	7	-	4x12	2	64	17	-	
99	99	100	10	7	-	4x12	4	160	13 1/2	-	
100	100	101	7	7	-	4x12	1	28	19 1/2	-	
101	101	102	9	7	-	4x12	3	108	15	-	
102	102	103	9	7	-	4x12	3	108	15	-	
103	103	104	10	7	-	4x12	4	160	13 1/2	-	
104	104	105	9	7	-	4x12	3	108	15	-	
105	105	106	8	7	-	4x12	2	64	17	-	
106	106	107	9	7	-	4x12	3	108	15	-	
107	107	108	17	12	-	6x12	4	408	6 1/2	17	
108	108	109	10	12	-	-	-	-	13 1/2	-	†
109	109	110	17	12	1	6x12	4	408	6 1/2	17	
110	110	111	17	12	1	6x12	4	408	6 1/2	17	
111	111	112	18	12	2	6x12	5	540	6	15 1/2	
112	112	113	16	12	-	6x12	3	288	7 1/2	17	
113	113	114	10	8	-	4x12	3	120	13 1/2	-	
114	114	115	10	8	1	4x12	4	160	13 1/2	-	
115	115	116	10	6	1	4x12	6	240	13 1/2	-	
116	116	117	10	6	-	4x12	5	200	13 1/2	-	
117	117	118	10	6	-	4x12	5	200	13 1/2	-	
118	118	119	10	6	-	4x12	5	200	13 1/2	-	
119	119	120	10	6	-	4x12	5	200	13 1/2	-	
120	120	121	10	6	-	4x12	5	200	13 1/2	-	
121	121	122	10	6	-	4x12	5	200	13 1/2	-	
122	122	123	10	6	1	4x12	6	240	13 1/2	-	
123	123	124	10	6	-	4x12	5	200	13 1/2	-	
124	124	125	11	6	1	4x12	7	308	12	-	
125	125	126	10	6	1	4x12	6	240	13 1/2	-	
126	126	127	11	6	-	4x12	6	264	12	-	
127	127	128	11	6	2	4x12	8	352	12	-	
128	128	129	10	6	1	4x12	6	240	13 1/2	-	
129	129	130	10	6	3	4x12	8	320	13 1/2	-	
130	130	131	10	6	1	4x12	6	240	13 1/2	-	

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

NOTES:

† *If (E) remaining undamaged stringers meet spacing requirements, damaged stringers need not be removed.*

† *If (E) stringers meet maximum spacing requirements, no work required.*

R:\cad\1268\1268 rehab 2018-WS3 Wed, Mar/28/18 01:36pm

DESIGNED BY: Nick Murray	CHECKED: Hrant Harutyunyan
DRAWN BY: Ken Haas	CHECKED: Nick Murray
QUANTITIES BY: Nick Murray	CHECKED: Hrant Harutyunyan

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA — NICHOLAS W. MURRAY — 03-28-2018 — SEE 11902 — REGISTERED ENGINEER

MAIN STREET PELICAN

MAIN STREET

WORK SUMMARY 3

BRIDGE NO. 1268

DWG. NO. 5

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N5	N14

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

Base Bid - Stringer Replacement/Additions/Redistribution 506(3) & 506(15)⚠

Span	From bent	To bent	Approx. max span length (ft)	Approx. # of existing stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max. spacing between a 3x12 and any other stringer (in.)	Max. spacing between a 4x12 and a 4x12 or 6x12 (in.)	Max. spacing between a 6x12 and another 6x12 stringer (in.)	Special Notes
47	47	48	10	15	-	-	-	-	-	-	-	No Stringer Work
48	48	49	11	17	-	-	-	-	-	-	-	No Stringer Work
49	49	50	9	11	-	-	-	-	-	-	-	No Stringer Work
50	50	51	10	10	-	4x12	2	80	9 1/2	13 1/2	-	
51	51	52	11	10	-	4x12	4	176	8 1/2	12	-	
52	52	53	9	10	-	4x12	1	36	10 1/2	15	-	
53	53	54	10	10	1	4x12	4	160	9 1/2	13 1/2	-	
54	54	55	10	11	-	4x12	1	40	9 1/2	13 1/2	-	
55	55	56	10	11	-	4x12	1	40	9 1/2	13 1/2	-	
56	56	57	10	15	-	-	-	-	-	-	-	No Stringer Work
57	57	58	10	14	-	-	-	-	-	-	-	No Stringer Work
58	58	59	10	15	-	-	-	-	-	-	-	No Stringer Work
59	59	60	10	16	-	-	-	-	-	-	-	No Stringer Work
60	60	61	10	15	-	-	-	-	-	-	-	No Stringer Work
61	61	62	10	11	-	4x12	1	40	9 1/2	13 1/2	-	
62	62	63	10	10	1	4x12	4	160	9 1/2	13 1/2	-	
63	63	64	10	11	-	4x12	1	40	9 1/2	13 1/2	-	
64	64	65	10	11	-	4x12	2	80	9 1/2	13 1/2	-	
65	65	66	10	11	-	4x12	2	80	9 1/2	13 1/2	-	
66	66	67	9	11	-	4x12	1	36	10 1/2	15	-	
67	67	68	11	17	-	-	-	-	-	-	-	No Stringer Work
68	68	69	10	18	-	-	-	-	-	-	-	No Stringer Work
69	69	70	10	16	-	-	-	-	-	-	-	No Stringer Work
70	70	71	10	11	4	4x12	10	400	9 1/2	13 1/2	-	
71	71	72	11	11	2	4x12	7	308	8 1/2	12	-	
72	72	73	10	10	1	4x12	4	160	9 1/2	13 1/2	-	
73	73	74	10	10	1	4x12	4	160	9 1/2	13 1/2	-	
74	74	75	10	10	3	4x12	8	320	9 1/2	13 1/2	-	
75	75	76	10	10	3	4x12	8	320	9 1/2	13 1/2	-	
76	76	77	10	10	-	4x12	3	120	9 1/2	13 1/2	-	
77	77	78	10	10	-	4x12	2	80	9 1/2	13 1/2	-	
78	78	79	10	10	2	4x12	6	240	9 1/2	13 1/2	-	
79	79	80	10	10	1	4x12	4	160	9 1/2	13 1/2	-	
80	80	81	9	10	2	4x12	5	180	10 1/2	15	-	
81	81	82	9	10	2	4x12	5	180	10 1/2	15	-	
82	82	83	10	10	1	4x12	4	160	9 1/2	13 1/2	-	
83	83	84	11	15	-	-	-	-	-	-	-	No Stringer Work
84	Bents 84 and 85 do not exist											
85												
86	86	87	17	19	-	6x12	2	204	4 1/2	6 1/2	17	
87	87	88	17	18	-	6x12	2	204	4 1/2	6 1/2	17	
88	88	89	17	19	-	6x12	2	204	4 1/2	6 1/2	17	
89	89	90	17	18	-	6x12	2	204	4 1/2	6 1/2	17	
90	90	91	17	19	2	6x12	5	510	4 1/2	6 1/2	17	

Base Bid - Stringer Replacement/Additions/Redistribution 506(3) & 506(15)⚠

Span	From bent	To bent	Approx. max span length (ft)	Approx. # of existing stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max. spacing between a 3x12 and any other stringer (in.)	Max. spacing between a 4x12 and a 4x12 or 6x12 (in.)	Max. spacing between a 6x12 and another 6x12 stringer (in.)	Special Notes
91	91	92	16	12	1	6x12	5	480	5	7 1/2	17	
92	92	93	17	19	-	6x12	2	204	4 1/2	6 1/2	17	
93	93	94	18	18	-	6x12	3	324	4 1/2	6	15 1/2	
94	94	95	17	12	1	6x12	6	612	4 1/2	6 1/2	17	
95	95	96	17	19	-	6x12	2	204	4 1/2	6 1/2	17	
96	96	97	17	20	-	6x12	1	102	4 1/2	6 1/2	17	
97	97	98	9	9	-	4x12	2	72	10 1/2	15	-	
98	98	99	8	9	-	4x12	1	32	12	17	-	
99	99	100	10	9	-	4x12	3	120	9 1/2	13 1/2	-	
100	100	101	7	9	-	4x12	1	28	14	17	-	
101	101	102	9	9	-	4x12	2	72	10 1/2	15	-	
102	102	103	9	10	-	4x12	1	36	10 1/2	15	-	
103	103	104	10	12	-	-	-	-	-	-	-	No Stringer Work
104	104	105	9	13	-	-	-	-	-	-	-	No Stringer Work
105	105	106	8	13	-	-	-	-	-	-	-	No Stringer Work
106	106	107	9	13	-	-	-	-	-	-	-	No Stringer Work
107	107	108	17	15	-	6x12	4	408	4 1/2	6 1/2	17	
108	108	109	10	14	-	-	-	-	-	-	-	No Stringer Work
109	109	110	17	13	1	6x12	6	612	4 1/2	6 1/2	17	
110	110	111	17	13	1	6x12	6	612	4 1/2	6 1/2	17	
111	111	112	18	13	2	6x12	8	864	4 1/2	6	15 1/2	
112	112	113	16	13	-	6x12	4	384	5	7 1/2	17	
113	113	114	10	15	-	-	-	-	-	-	-	No Stringer Work
114	114	115	10	15	-	-	-	-	-	-	-	No Stringer Work
115	115	116	10	16	-	-	-	-	-	-	-	No Stringer Work
116	116	117	10	17	-	-	-	-	9 1/2	13 1/2	-	Redistribute Only
117	117	118	10	16	-	-	-	-	-	-	-	No Stringer Work
118	118	119	10	16	-	-	-	-	-	-	-	No Stringer Work
119	119	120	10	17	-	-	-	-	-	-	-	No Stringer Work
120	120	121	10	17	-	-	-	-	-	-	-	No Stringer Work
121	121	122	11	15	-	-	-	-	8 1/2	12	-	Redistribute Only
122	122	123	10	17	-	-	-	-	-	-	-	No Stringer Work
123	123	124	10	17	-	-	-	-	-	-	-	No Stringer Work
124	124	125	10	16	-	-	-	-	-	-	-	No Stringer Work
125	125	126	11	17	-	-	-	-	8 1/2	12	-	Redistribute Only
126	126	127	10	17	-	-	-	-	-	-	-	No Stringer Work
127	127	128	10	16	-	-	-	-	-	-	-	No Stringer Work
128	128	129	10	17	-	-	-	-	-	-	-	No Stringer Work
129	129	130	10	15	-	-	-	-	-	-	-	No Stringer Work
130	130	131	10	16	-	-	-	-	-	-	-	No Stringer Work

REVISIONS			
No.	Date	By	Description
1	12/6/18	NWM	Table Revisions

NOTES:

1. Exterior stringer spacing may be 150% of specified spacing

DESIGNED BY: Nick Murray	CHECKED: Hrant Harutyunyan	**REHABILITATION**
DRAWN BY: Ken Huse	CHECKED: Nick Murray	
QUANTITIES BY: Nick Murray	CHECKED: Hrant Harutyunyan	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA 49TH NICHOLAS W. MURRAY 12-07-2018 SEAL 119472 REGISTERED STRUCTURAL ENGINEER

MAIN STREET PELICAN

MAIN STREET

WORK SUMMARY 3

BRIDGE NO. 1268

DWG. NO. 5

U:\Current Work\1268 Pelican Boardwalk\Stringer CO-WS3 Fri, Dec/07/18 08:49am

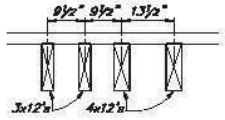
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N6A	N14

SFHWY00063/0003205
Change Order No. 5
Attachment 2

Base Bid - Stringer Replacement/Additions/Redistribution 506(3) & 506(15) ⚠⚠⚠

Span	From bent	To bent	Approx. max span length (ft)	Approx. # of existing stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max. spacing between a 3x12 and any other stringer (in.)	Max. spacing between a 4x12 and a 4x12 (in.)	Special Notes
100	100	101	7	9	-	4x12	5	224	14	17	
101	101	102	9	9	-	4x12	5	286	10 1/2	15	
102	102	103	9	10	-	4x12	9	324	10 1/2	15	
103	103	104	10	12	-	-	-	-	-	-	No Stringer Work
104	104	105	9	13	-	-	-	-	-	-	No Stringer Work
105	105	106	8	13	-	-	-	-	-	-	No Stringer Work
106	106	107	9	13	-	-	-	-	-	-	No Stringer Work
107	107	108	17	15	-	6x12	2	204	-	-	See Notes
108	108	109	10	14	-	-	-	-	-	-	No Stringer Work
109	109	110	17	13	1	6x12	2	204	-	-	See Notes
110	110	111	17	13	1	6x12	4	408	-	-	See Notes
111	111	112	16	13	2	6x12	4	432	-	-	See Notes
112	112	113	16	13	-	6x12	2	192	-	-	See Notes
113	113	114	10	15	-	-	-	-	-	-	No Stringer Work
114	114	115	10	15	-	-	-	-	-	-	No Stringer Work
115	115	116	10	15	-	-	-	-	-	-	No Stringer Work
117	117	118	10	15	-	-	-	-	-	-	No Stringer Work
118	118	119	10	15	-	-	-	-	-	-	No Stringer Work
119	119	120	10	17	-	-	-	-	-	-	No Stringer Work
120	120	121	10	17	-	-	-	-	-	-	No Stringer Work
122	122	123	10	17	-	-	-	-	-	-	No Stringer Work
123	123	124	10	17	-	-	-	-	-	-	No Stringer Work
124	124	125	10	15	-	-	-	-	-	-	No Stringer Work
126	126	127	10	17	-	-	-	-	-	-	No Stringer Work
127	127	128	10	15	-	-	-	-	-	-	No Stringer Work
128	128	129	10	17	-	-	-	-	-	-	No Stringer Work
129	129	130	10	15	-	-	-	-	-	-	No Stringer Work
130	130	131	10	15	-	-	-	-	-	-	No Stringer Work

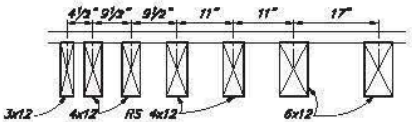
Span (ft.)	Max. Spacing between a 3x12 and any other stringer	Max. Spacing between a 4x12 and 4x12
7	14"	17"
8	12"	17"
9	10.5"	15"
10	9.5"	13.5"
11	8.5"	12"
12	7.5"	11"
13	7"	10"



4x12 STRINGER SPACING TABLE WITH 10' SPAN EXAMPLE

⚠

Span (ft.)	Max. Spacing between a 3x12 and any other stringer	Max. Spacing between a 4x12 and 4x12, RS 4x12 or 6x12	Max. Spacing between a RS 4x12 and RS 4x12 or 6x12	Max. Spacing between a 6x12 and 6x12
14	6.5"	10"	13"	17"
15	6.5"	10"	12"	17"
16	5"	10"	12"	17"
17	4.5"	9.5"	11"	17"
18	4.5"	8.5"	11"	13.5"
19	4"	8"	10"	14.5"
20	3.5"	8"	10"	13.5"



6x12 STRINGER SPACING TABLE WITH 17' SPAN EXAMPLE

⚠⚠ NOTES:

1. Exterior stringer spacing may be 150% of specified spacing.
2. For the purposes of the tables on N4, N5 & N6 any stringer with field measured width ≥3" will be considered a 4x12.
3. Damaged stringers may remain in place if maximum spacing between undamaged stringers is met.
4. Existing Stringer quantities and stringer removal and addition quantities are estimates only and will be determined by the Engineer in the field.
5. Acceptability of existing stringers to remain will be determined by the Engineer in the field.
6. For spans using 6x12 stringers, meet the spacing requirements of "6x12 Stringer Spacing Table with 17' Span Example". For the purposes of this table any stringer with a field measured width ≥4" will be considered a Rough Sawn (RS) 4x12

REVISIONS			
No.	Date	By	Description
1	12/6/18	NWM	Table Revisions
2	1/15/19	NWM	Table Revisions (No redistr.)
3	2/5/19	NWM	Table Revisions (6x12 changes)

Record Drawings have been reviewed by the Project Engineer,and represent to the best of my knowledge, the project as constructed.

PE: [signature] Date: 4/06/2020

DESIGNED BY:	CHECKED:
DRAWN BY:	CHECKED:
QUANTITIES BY:	CHECKED:

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2275

MAIN STREET PELICAN

MAIN STREET

WORK SUMMARY 3

BRIDGE NO. 1268
DWG. NO. 5

U:\Current Work\1268 Pelican Boardwalk\Stringer CO-#63 Wed, Feb/06/19 08:24am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N6	N14

Additive Alternate A - Stringer Replacement/Additions/Redistribution 506(3) & 506(15)										
Span	From bent	To bent	Approx. span length (ft)	Approx. # of existing 4x12 stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max O.C. Spacing between a 4x12 and an adjacent stringer (in)	Max O.C. Spacing between adjacent 6x12 stringers (in)
131	131	132	10	6	2	4x12	7	280	13 1/2	-
132	132	133	10	6	1	4x12	6	240	13 1/2	-
133	133	134	10	6	1	4x12	6	240	13 1/2	-
134	134	135	10	6	-	4x12	5	200	13 1/2	-
135	135	136	10	6	1	4x12	6	240	13 1/2	-
136	136	137	10	6	-	4x12	5	200	13 1/2	-
137	137	138	10	6	-	4x12	5	200	13 1/2	-
138	138	139	10	6	1	4x12	6	240	13 1/2	-
139	139	140	10	6	1	4x12	6	240	13 1/2	-
140	140	141	10	6	1	4x12	6	240	13 1/2	-
141	141	142	10	6	-	4x12	5	200	13 1/2	-
142	142	143	11	6	-	4x12	6	264	12	-
143	143	144	10	6	1	4x12	6	240	13 1/2	-
144	144	145	10	6	-	4x12	5	200	13 1/2	-
145	145	146	10	6	-	4x12	5	200	13 1/2	-
146	146	147	10	6	1	4x12	6	240	13 1/2	-
147	147	148	10	6	1	4x12	6	240	13 1/2	-
148	148	149	10	6	-	4x12	5	200	13 1/2	-
149	149	150	10	6	2	4x12	7	280	13 1/2	-
150	150	151	10	6	2	4x12	7	280	13 1/2	-
151	151	152	10	6	2	4x12	7	280	13 1/2	-
152	152	153	11	6	1	4x12	7	308	12	-
153	153	154	10	6	1	4x12	6	240	13 1/2	-
154	154	155	10	6	-	4x12	5	200	13 1/2	-
155	155	156	10	6	1	4x12	6	240	13 1/2	-
156	156	157	11	6	-	4x12	6	264	12	-
157	157	158	9	6	1	4x12	5	180	15	-
158	158	159	11	6	-	4x12	6	264	12	-
159	159	160	10	6	-	4x12	5	200	13 1/2	-
160	160	161	10	6	1	4x12	6	240	13 1/2	-
161	161	162	11	6	-	4x12	6	264	12	-
162	162	163	10	6	1	4x12	6	240	13 1/2	-
163	163	164	10	6	2	4x12	7	280	13 1/2	-
164	164	165	10	6	1	4x12	6	240	13 1/2	-
165	165	166	11	6	1	4x12	7	308	12	-
166	166	167	9	6	1	4x12	5	180	15	-

Additive Alternate A - Stringer Replacement/Additions/Redistribution 506(3) & 506(15)										
Span	From bent	To bent	Approx. span length (ft)	Approx. # of existing 4x12 stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max O.C. Spacing between a 4x12 and an adjacent stringer (in)	Max O.C. Spacing between adjacent 6x12 stringers (in)
167	167	168	11	6	-	4x12	6	264	12	-
168	168	169	10	6	-	4x12	5	200	13 1/2	-
169	169	170	10	6	-	4x12	5	200	13 1/2	-
170	170	171	10	6	-	4x12	5	200	13 1/2	-
171	171	172	10	6	-	4x12	5	200	13 1/2	-
172	172	173	11	6	-	4x12	6	264	12	-
173	173	174	10	6	-	4x12	5	200	13 1/2	-
174	174	175	10	6	-	4x12	5	200	13 1/2	-
175	175	176	10	6	-	4x12	5	200	13 1/2	-
176	176	177	10	6	-	4x12	5	200	13 1/2	-
177	177	178	11	6	-	4x12	6	264	12	-
178	178	179	9	6	-	4x12	4	144	15	-
179	179	180	11	6	-	4x12	6	264	12	-
180	180	181	9	6	1	4x12	5	180	15	-
181	181	182	10	6	-	4x12	5	200	13 1/2	-
182	182	183	10	6	-	4x12	5	200	13 1/2	-
183	183	184	11	6	-	4x12	6	264	12	-
184	184	185	10	6	1	4x12	6	240	13 1/2	-
185	185	186	11	6	1	4x12	7	308	12	-
186	186	187	10	6	-	4x12	5	200	13 1/2	-
187	187	188	11	6	-	4x12	6	264	12	-
188	188	189	9	6	-	4x12	4	144	15	-
189	189	190	10	6	-	4x12	5	200	13 1/2	-
190	190	191	10	6	-	4x12	5	200	13 1/2	-
191	191	192	11	6	1	4x12	7	308	12	-
192	192	193	10	6	-	4x12	5	200	13 1/2	-
193	193	194	10	6	2	4x12	7	280	13 1/2	-
194	194	195	10	6	-	4x12	5	200	13 1/2	-
195	195	196	11	6	-	4x12	6	264	12	-
196	196	197	10	6	-	4x12	5	200	13 1/2	-
197	197	198	10	6	-	4x12	5	200	13 1/2	-
198	198	199	9	6	-	4x12	4	144	15	-
199	199	200	8	6	-	4x12	3	96	17	-
200	200	201	8	6	-	4x12	3	96	17	-
201	201	202	9	6	-	4x12	4	144	15	-
202	202	203	10	6	-	4x12	5	200	13 1/2	-

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

NOTES:

† *If (E) remaining undamaged stringers meet spacing requirements, damaged stringers need not be removed.*

‡ *If (E) stringers meet maximum spacing requirements, no work required.*

R:\cad\1268\1268 rehab 2018-AA-1 Wed, Mar/28/18 01:35pm

DESIGNED BY: Nick Murray	CHECKED: Hrant Harutyunyan
DRAWN BY: Ken Hase	CHECKED: Nick Murray
QUANTITIES BY: Nick Murray	CHECKED: Hrant Harutyunyan

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA — NICHOLAS W. MURRAY — 03-28-2018 — SEE 119472 — REGISTERED PROFESSIONAL ENGINEER

MAIN STREET PELICAN

MAIN STREET

ADDITIVE ALTERNATIVE A

BRIDGE NO. 1268

DWG. NO. 6

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N6	N14

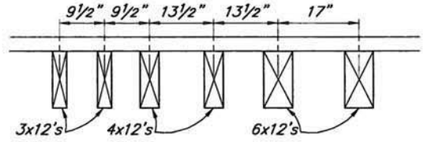
Additive Alternate A - Stringer Replacement/Additions/Redistribution 506(3) & 506(15) ⚠

Span	From bent	To bent	Approx. max span length (ft)	Approx. # of existing stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max. spacing between a 3x12 and any other stringer (in.)	Max. spacing between a 4x12 and a 4x12 or 6x12 (in.)	Max. spacing between a 6x12 and another 6x12 stringer (in.)	Special Notes
131	131	132	10	15	2	-	-	-	9 1/2	13 1/2	-	Redistribute Only
132	132	133	10	14	1	-	-	-	9 1/2	13 1/2	-	Redistribute Only
133	133	134	10	16	-	-	-	-	-	-	-	No Stringer Work
134	134	135	10	15	-	-	-	-	-	-	-	No Stringer Work
135	135	136	10	15	1	-	-	-	9 1/2	13 1/2	-	Redistribute Only
136	136	137	10	19	-	-	-	-	-	-	-	No Stringer Work
137	137	138	10	17	-	-	-	-	-	-	-	No Stringer Work
138	138	139	10	14	1	-	-	-	9 1/2	13 1/2	-	Redistribute Only
139	139	140	10	13	-	-	-	-	-	-	-	No Stringer Work
140	140	141	10	13	-	-	-	-	-	-	-	No Stringer Work
141	141	142	10	16	-	-	-	-	-	-	-	No Stringer Work
142	142	143	10	16	-	-	-	-	-	-	-	No Stringer Work
143	143	144	10	11	1	-	-	-	9 1/2	13 1/2	-	Redistribute Only
144	144	145	10	16	-	-	-	-	-	-	-	No Stringer Work
145	145	146	10	16	-	-	-	-	-	-	-	No Stringer Work
146	146	147	10	15	-	-	-	-	-	-	-	No Stringer Work
147	147	148	10	17	-	-	-	-	-	-	-	No Stringer Work
148	148	149	10	17	-	-	-	-	-	-	-	No Stringer Work
149	149	150	10	10	2	4x12	3	120	9 1/2	13 1/2	-	
150	150	151	10	16	2	-	-	-	9 1/2	13 1/2	-	Redistribute Only
151	151	152	10	16	1	-	-	-	9 1/2	13 1/2	-	Redistribute Only
152	152	153	10	14	1	-	-	-	9 1/2	13 1/2	-	Redistribute Only
153	153	154	10	13	-	4x12	1	40	9 1/2	13 1/2	-	
154	154	155	10	12	1	-	-	-	9 1/2	13 1/2	-	Redistribute Only
155	155	156	10	11	-	4x12	1	40	9 1/2	13 1/2	-	
156	156	157	10	12	-	-	-	-	9 1/2	13 1/2	-	Redistribute Only
157	157	158	10	18	-	-	-	-	-	-	-	No Stringer Work
158	158	159	10	18	-	-	-	-	-	-	-	No Stringer Work
159	159	160	10	13	1	-	-	-	9 1/2	13 1/2	-	Redistribute Only
160	160	161	10	11	-	4x12	2	80	9 1/2	13 1/2	-	
161	161	162	10	11	1	-	-	-	9 1/2	13 1/2	-	Redistribute Only
162	162	163	10	11	1	4x12	2	80	9 1/2	13 1/2	-	
163	163	164	10	11	1	4x12	2	80	9 1/2	13 1/2	-	
164	164	165	10	11	2	4x12	3	120	9 1/2	13 1/2	-	
165	165	166	10	13	1	-	-	-	-	-	-	No Stringer Work
166	166	167	10	13	-	-	-	-	9 1/2	13 1/2	-	Redistribute Only
167	167	168	10	13	-	4x12	1	40	9 1/2	13 1/2	-	
168	168	169	10	13	-	4x12	1	40	9 1/2	13 1/2	-	
169	169	170	10	13	-	4x12	1	40	9 1/2	13 1/2	-	
170	170	171	10	13	-	4x12	1	40	9 1/2	13 1/2	-	
171	171	172	10	14	-	4x12	1	40	9 1/2	13 1/2	-	

Additive Alternate A - Stringer Replacement/Additions/Redistribution 506(3) & 506(15) ⚠

Span	From bent	To bent	Approx. max span length (ft)	Approx. # of existing stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max. spacing between a 3x12 and any other stringer (in.)	Max. spacing between a 4x12 and a 4x12 or 6x12 (in.)	Max. spacing between a 6x12 and another 6x12 stringer (in.)	Special Notes
172	172	173	10	14	1	-	-	-	9 1/2	13 1/2	-	Redistribute Only
173	173	174	10	13	-	-	-	-	9 1/2	13 1/2	-	Redistribute Only
174	174	175	10	16	-	-	-	-	9 1/2	13 1/2	-	Redistribute Only
175	175	176	10	14	-	-	-	-	9 1/2	13 1/2	-	Redistribute Only
176	176	177	9	14	-	-	-	-	-	-	-	No Stringer Work
177	177	178	11	15	-	-	-	-	8 1/2	12	-	Redistribute Only
178	178	179	10	16	-	-	-	-	-	-	-	No Stringer Work

Span (ft.)	*Max. Spacing between a 3x12 and any other stringer*	*Max. Spacing between a 4x12 and 4x12 or 6x12*	*Max. Spacing between a 6x12 and another 6x12*
7	14"	17"	17"
8	12"	17"	17"
9	10.5"	15"	17"
10	9.5"	13.5"	17"
11	8.5"	12"	17"
12	7.5"	11"	17"
13	7"	10"	17"
14	6.5"	9"	17"
15	5.5"	8"	17"
16	5"	7.5"	17"
17	4.5"	6.5"	17"
18	4.5"	6"	15.5"
19	4"	5.5"	14.5"
20	3.5"	5.5"	13.5"



STRINGER SPACING TABLE WITH 10' SPAN EXAMPLE

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

REVISIONS			
No.	Date	By	Description
1	12/6/18	NWM	Table Revisions

Notes:

1. *For the purposes of the tables on N4, N5 & N6 any stringer with field measured width > 3" will be considered a 4x12.*
2. *Exterior stringer spacing may be 150% of specified spacing.*

DESIGNED BY: Nick Murray	CHECKED: Hrant Harutyunyan	**REHABILITATION**	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975
DRAWN BY: Ken Huse	CHECKED: Nick Murray		
QUANTITIES BY: Nick Murray	CHECKED: Hrant Harutyunyan		

STATE OF ALASKA 49TH — NICHOLAS W. MURRAY 12-07-2018 SE# 119472 REGISTERED STRUCTURAL ENGINEER

MAIN STREET PELICAN

MAIN STREET

ADDITIVE ALTERNATIVE A

BRIDGE NO. 1268

DWG. NO. 6

U:\Current Work\1268 Pelican Boardwalk\Stringer CO-AA-1 Fri, Dec/07/18 08:52am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N6A	N14

SFHWY00063/0003205
Change Order No. 5
Attachment 3

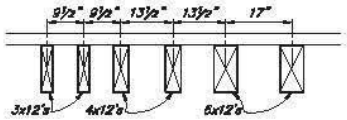
Additive Alternate A - Stringer Replacement/Additions/Redistribution 506(3) & 508(15) ⚠⚠

Span	From bent	To bent	Approx. max span length (ft)	Approx. # of existing stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max. spacing between a 6x12 and any other stringer (in.)	Max. spacing between a 4x12 and a 4x12 or 6x12 (in.)	Max. spacing between a 6x12 and another 6x12 stringer (in.)	Special Notes
149	149	150	10	10	2	4x12	2	80	9 1/2	13 1/2	-	
153	153	154	10	13	-	4x12	5	200	9 1/2	13 1/2	-	
155	155	156	10	11	-	4x12	3	120	9 1/2	13 1/2	-	

Record Drawings have been reviewed by the Project Engineer,and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

Span (ft.)	Max. Spacing between a 3x12 and any other stringer	Max. Spacing between a 4x12 and 4x12 or 6x12	Max. Spacing between a 6x12 and another 6x12
7	14"	17"	17"
8	12"	17"	17"
9	10.5"	15"	17"
10	9.5"	13.5"	17"
11	8.5"	12"	17"
12	7.5"	11"	17"
13	7"	10"	17"
14	6.5"	9"	17"
15	6.5"	8"	17"
16	5"	7.5"	17"
17	4.5"	6.5"	17"
18	4.5"	6"	13.5"
19	4"	5.5"	14.5"
20	3.5"	5.5"	13.5"



STRINGER SPACING TABLE WITH 10' SPAN EXAMPLE

⚠ NOTES:

1. Exterior stringer spacing may be 150% of specified spacing.
2. For the purpose of the tables on N4, N5 & N6 any stringer with field measured width ≥ 3" will be considered a 4x12.
3. Damaged stringers may remain in place if maximum spacing between undamaged stringers is met.
4. Existing Stringer quantities and stringer removal and addition quantities are estimates only and will be determined by the Engineer in the field.
5. Acceptability of existing stringers to remain will be determined by the Engineer in the field.

REVISIONS			
No.	Date	By	Description
1	12/6/18	NWM	Table Revisions
2	1/15/19	NWM	Table Revisions (No redistr.)

DESIGNED BY: Nick Murray
DRAWN BY: Ken Howe
QUANTITIES BY: Nick Murray
CHECKED: Hrant Hovhannisyan
CHECKED: Nick Murray
CHECKED: Hrant Hovhannisyan

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2275

MAIN STREET PELICAN

MAIN STREET

ADDITIVE ALTERNATIVE A

BRIDGE NO. 1268
DWG. NO. 6

U:\Current Work\1268 Pelican Boardwalk\Stringer 60-44-1 Wed, Feb/06/19 09:54pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N7	N14

Additive Alternate B - Stringer Replacement/Additions/Redistribution 506(3) & 506(15)										
Span	From bent	To bent	Approx. span length (ft)	Approx. # of existing 4x12 stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max O.C. Spacing between a 4x12 and an adjacent stringer (in)	Max O.C. Spacing between adjacent 6x12 stringers (in)
L1	L1	L2	9	12	2	-	-	-	13	- †
L2	L2	L3	11	8	2	4x12	6	264	10 1/2	-
L3	L3	L4	10	6	-	4x12	5	200	11 1/2	-
L4	L4	L5	9	6	-	4x12	4	144	13	-
L5	L5	L6	10	6	-	4x12	5	200	11 1/2	-
L6	L6	L7	10	6	-	4x12	5	200	11 1/2	-
L7	L7	L8	10	6	-	4x12	5	200	11 1/2	-
L8	L8	L9	10	6	-	4x12	5	200	11 1/2	-
L9	L9	L10	10	6	1	4x12	6	240	11 1/2	-
L10	L10	L11	10	6	-	4x12	5	200	11 1/2	-
L11	L11	L12	10	6	-	4x12	5	200	11 1/2	-
L12	L12	L13	11	6	-	4x12	6	264	10 1/2	-
L13	L13	L14	9	6	-	4x12	4	144	13	-
L14	L14	L15	10	6	-	4x12	5	200	11 1/2	-
L15	L15	L16	10	6	1	4x12	6	240	11 1/2	-
L16	L16	L17	10	6	1	4x12	6	240	11 1/2	-
L17	L17	L18	10	6	1	4x12	6	240	11 1/2	-
L18	L18	L19	10	6	1	4x12	6	240	11 1/2	-
L19	L19	L20	10	6	2	4x12	7	280	11 1/2	-
L20	L20	L21	10	7	1	4x12	5	200	11 1/2	-
L21	L21	L22	10	7	-	4x12	4	160	11 1/2	-
L22	Span L22 does not exist									
L23	L23	L24	13	8	3	4x12	10	520	8 1/2	-
L24	L24	L25	9	8	-	4x12	2	72	13	-
L25	L25	L26	10	7	-	4x12	4	160	11 1/2	-
L26	L26	L27	10	6	1	4x12	6	240	11 1/2	-
L27	L27	L28	10	6	-	4x12	5	200	11 1/2	-
L28	L28	L29	10	6	-	4x12	5	200	11 1/2	-
L29	L29	L30	9	6	1	4x12	5	180	13	-
L30	L30	L31	9	6	-	4x12	4	144	13	-
L31	L31	L32	9	6	-	4x12	4	144	13	-
L32	L32	L33	10	6	1	4x12	6	240	11 1/2	-
L33	L33	L34	11	6	-	4x12	6	264	10 1/2	-
L34	L34	L35	10	6	-	4x12	5	200	11 1/2	-
L35	L35	L36	10	6	-	4x12	5	200	11 1/2	-
L36	L36	L37	10	6	-	4x12	5	200	11 1/2	-
L37	L37	L38	10	6	-	4x12	5	200	11 1/2	-

Additive Alternate B - Stringer Replacement/Additions/Redistribution 506(3) & 506(15)										
Span	From bent	To bent	Approx. span length (ft)	Approx. # of existing 4x12 stringers	Approx. # of damaged stringers to be removed	Size of stringers to be added	Approx. # of stringers to be added	Approx. board feet of added stringers	Max O.C. Spacing between a 4x12 and an adjacent stringer (in)	Max O.C. Spacing between adjacent 6x12 stringers (in)
L38	L38	L39	10	6	-	4x12	5	200	11 1/2	-
L39	L39	L40	10	6	-	4x12	5	200	11 1/2	-
L40	L40	L41	10	6	-	4x12	5	200	11 1/2	-
L41	L41	L42	10	6	-	4x12	5	200	11 1/2	-
L42	L42	L43	10	6	-	4x12	5	200	11 1/2	-
L43	L43	L44	10	6	-	4x12	5	200	11 1/2	-
L44	L44	L45	10	6	3	4x12	8	320	11 1/2	-
L45	L45	L46	10	6	3	4x12	8	320	11 1/2	-
L46	L46	L47	11	6	-	4x12	6	264	10 1/2	-
L47	L47	L48	4	No work required at Span L47						
L48	L48	L49	7	6	-	4x12	2	56	17	-
L49	L49	L50	8	6	3	4x12	6	192	15	-
L50	L50	L51	10	6	-	4x12	5	200	11 1/2	-
L51	L51	L52	6	No work required at Span L51						
L52	L52	L53	9	6	-	4x12	4	144	13	-
L53	L53	L54	10	6	-	4x12	5	200	11 1/2	-
L54	L54	L55	11	6	-	4x12	6	264	10 1/2	-
L55	L55	L56	11	6	-	4x12	6	264	10 1/2	-
L56	L56	L57	9	6	-	4x12	4	144	13	-
L57	L57	L58	10	6	-	4x12	5	200	11 1/2	-
L58	L58	L59	10	6	-	4x12	5	200	11 1/2	-
L59	L59	L60	10	6	-	4x12	5	200	11 1/2	-
L60	L60	L61	10	6	-	4x12	5	200	11 1/2	-
L61	L61	L62	10	6	-	4x12	5	200	11 1/2	-
L62	L62	L63	10	6	-	4x12	5	200	11 1/2	-
L63	L63	L64	10	6	-	4x12	5	200	11 1/2	-
L64	L64	L65	10	6	-	4x12	5	200	11 1/2	-
L65	L65	L66	10	6	-	4x12	5	200	11 1/2	-
L66	L66	L67	10	6	-	4x12	5	200	11 1/2	-
L67	L67	L68	10	6	-	4x12	5	200	11 1/2	-
L68	L68	L69	10	6	1	4x12	6	240	11 1/2	-
L69	L69	L70	10	6	-	4x12	5	200	11 1/2	-
L70	L70	L71	9	6	-	4x12	4	144	13	-
L71	L71	L72	14	6	-	6x12	6	504	7 1/2	17
L72	L72	L73	10	7	-	4x12	4	160	11 1/2	-
L73	L73	L74	9	7	-	4x12	3	108	13	-

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

NOTES:

† *If (E) remaining undamaged stringers meet spacing requirements, damaged stringers need not be removed.*

† *If (E) stringers meet maximum spacing requirements, no work required.*

R:\cad\1268\1268 rehab 2018-AA-2 Wed, Mar/28/18 01:37pm

DESIGNED BY: Nick Murray	CHECKED: Hrant Harutyunyan
DRAWN BY: Ken Hase	CHECKED: Nick Murray
QUANTITIES BY: Nick Murray	CHECKED: Hrant Harutyunyan

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA 49TH NICHOLAS W. MURRAY 03-28-2018 REGISTERED ENGINEER

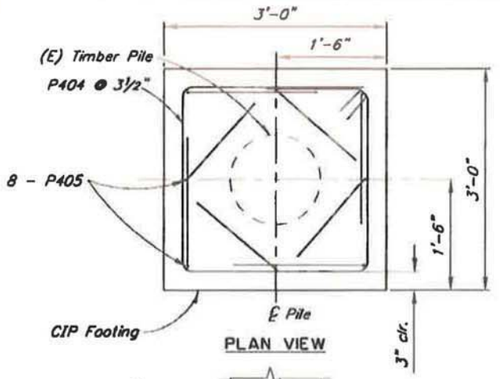
MAIN STREET PELICAN

MAIN STREET

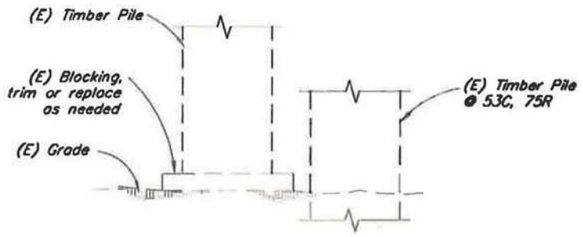
ADDITIVE ALTERNATIVE B

BRIDGE NO. 1268

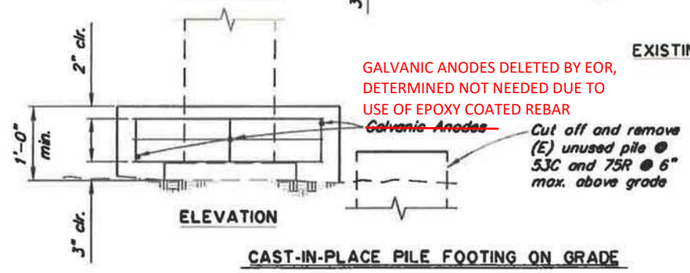
DWG. NO. 7



PLAN VIEW



EXISTING TIMBER PILE

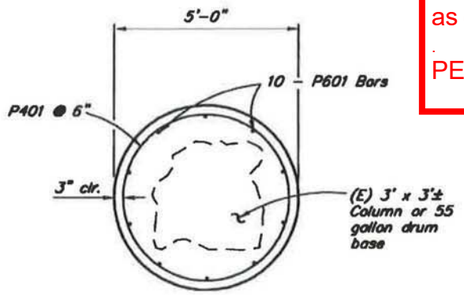


ELEVATION

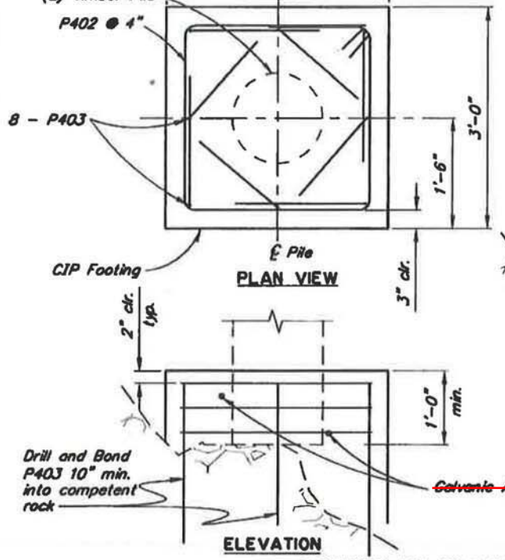
CAST-IN-PLACE PILE FOOTING ON GRADE

6C, 53L, 75R

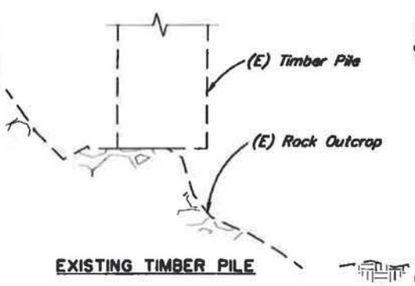
GALVANIC ANODES DELETED BY EOR, DETERMINED NOT NEEDED DUE TO USE OF EPOXY COATED REBAR



SECTION A-A



PLAN VIEW



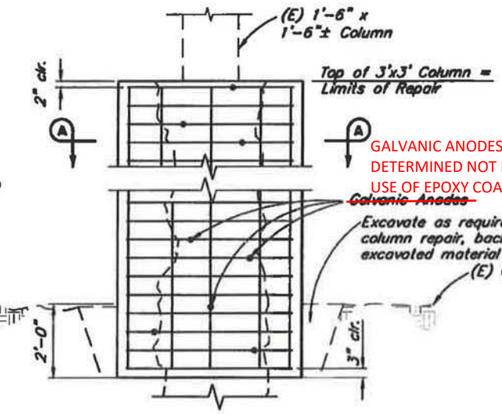
EXISTING TIMBER PILE

GALVANIC ANODES DELETED BY EOR, DETERMINED NOT NEEDED DUE TO USE OF EPOXY COATED REBAR

ELEVATION

CAST-IN-PLACE PILE FOOTING ON ROCK

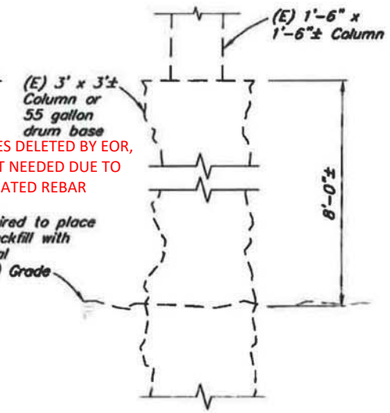
-18L, -15R, -14R, -8L, 13SL



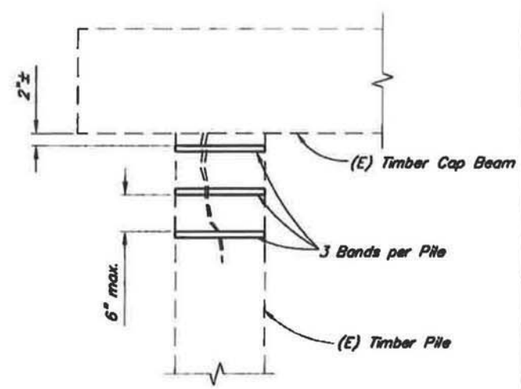
ELEVATION

CONCRETE COLUMN REPAIR

-30L, -29L, -28L, -27L, -26L



EXISTING CONCRETE COLUMN



PILE BANDING DETAIL

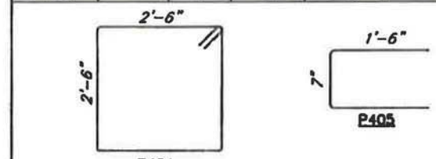
-21R, -11L, -4L/R, 39L, 55L, 63R, 64L, 65L, 66L, 82R, 89R, 107R, 115L, 116R, 118L, 129L, 130L, 138R, 141L, 144R, 178L, L28L/R, L44L, L47L, L57R, L58L, L61L/R, L67L/R, L69L

For Piles with splitting at base, use similar detail. Alternate designs may be submitted for approval.

NOTES:
(E) = Existing
– – – = Existing
——— = Proposed

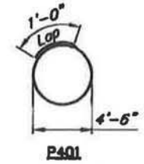
REINFORCING STEEL - ONE CAST-IN-PLACE FOOTING ON GRADE

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
P404		4	3	10'-9"	STIRRUP
P405		4	8	3'-8"	BENT



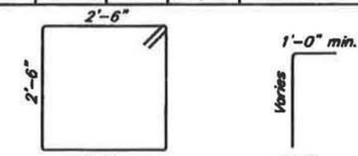
REINFORCING STEEL - ONE COLUMN REPAIR

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
P401		4	20	15'-2"	HOOP
P601		6	10	9'-7"	-----



REINFORCING STEEL - ONE CAST-IN-PLACE FOOTING ON ROCK

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
P402		4	3	10-9"	STIRRUP
P403	F	4	8	VARIES	BENT



F – Field bend and cut as required

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N8	N14

DESIGNED BY: Nick Murray	CHECKED: Hrant Harutyunyan
DRAWN BY: Ken Huss	CHECKED: Nick Murray
QUANTITIES BY: Nick Murray	CHECKED: Hrant Harutyunyan

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

NICHOLAS W. MURRAY 03-22-2018 AK REG 119472 REGISTERED STRUCTURAL ENGINEER

MAIN STREET PELICAN
MAIN STREET
COLUMN AND PILE REPAIR DETAILS

BRIDGE NO. 1268
DWG. NO. 8

R:\ced\1268\1268 rehab 2018-DETAILS 1 Thu, Mar/22/18 08:25am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00083	2018	N9	N14

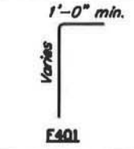
REINFORCING STEEL - ONE PRECAST FOOTING

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
F501	E	5	8	2'-0"	----

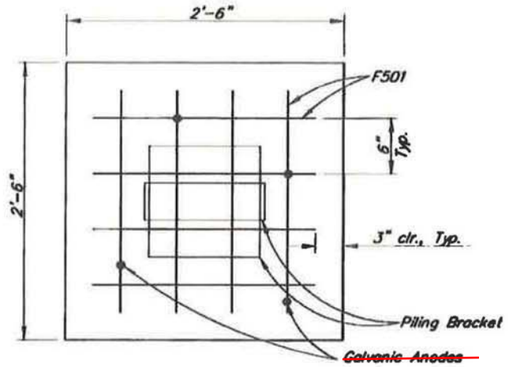
E – Epoxy-Coated reinforcing steel

REINFORCING STEEL - ONE CAST-IN-PLACE FOOTING

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
F401	F	4	8	VARIES	BENT
F502		5	8	2'-0"	----

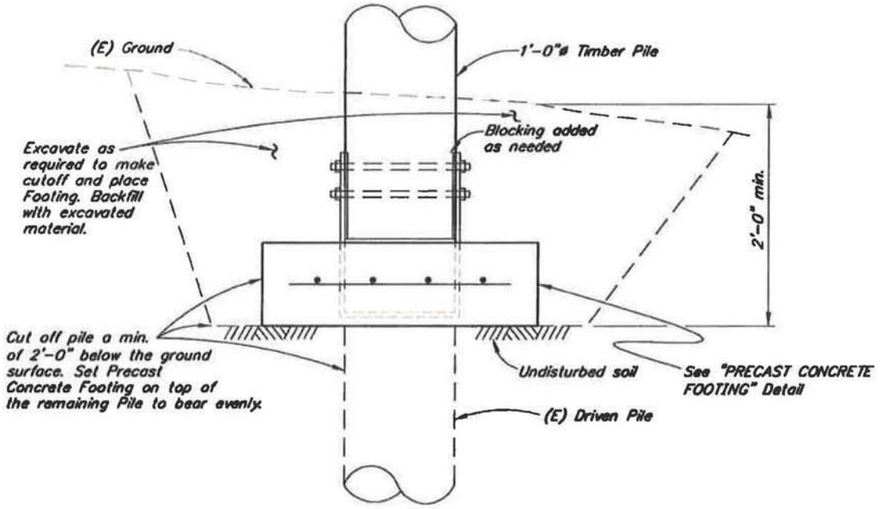


F – Field bend and cut as required



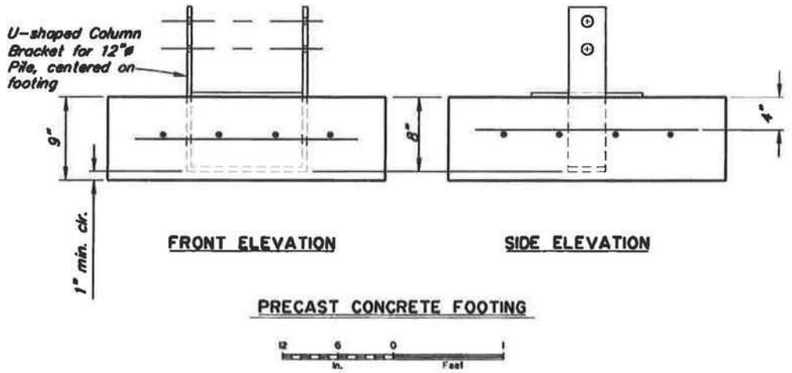
PLAN VIEW

GALVANIC ANODES DELETED BY EOR, DETERMINED NOT NEEDED DUE TO USE OF EPOXY COATED REBAR



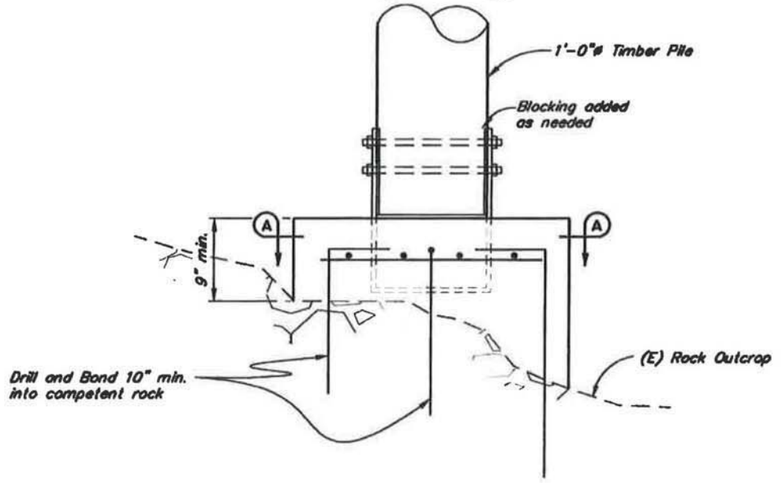
PILE REPLACEMENT DETAIL WITH PRECAST FOOTING

-17R, 5L, 22L, 24L, 66R, 67L, 74L, 75L, 80R, 83L, 123R, 125L, 134R, 159R, L41C



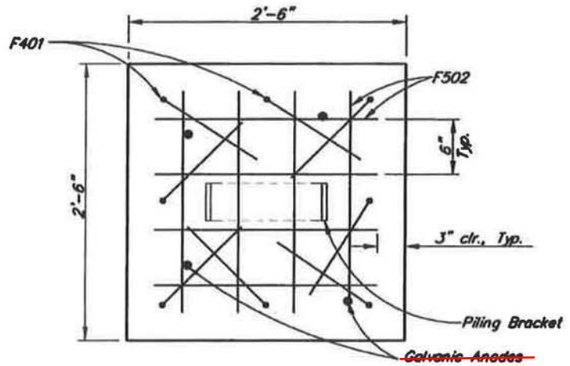
FRONT ELEVATION SIDE ELEVATION

PRECAST CONCRETE FOOTING



PILE REPLACEMENT DETAIL WITH CAST-IN-PLACE FOOTING

-13L



GALVANIC ANODES DELETED BY EOR, DETERMINED NOT NEEDED DUE TO USE OF EPOXY COATED REBAR

SECTION A-A

NOTES:
(E) = Existing
– – – = Existing
——— = Proposed

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

DESIGNED BY: Nick Murray	CHECKED: Hrant Harutyunyan
DRAWN BY: Ken Hess	CHECKED: Nick Murray
QUANTITIES BY: Nick Murray	CHECKED: Hrant Harutyunyan

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA 49th
MICHAEL M. MURRAY
03-22-2018
EXPIRES: STRUCTURAL ENGINEER

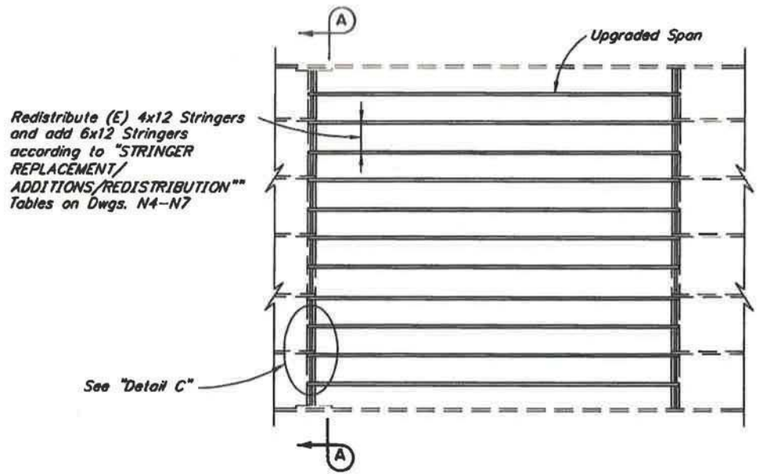
MAIN STREET PELICAN
MAIN STREET
PILE REPLACEMENT DETAILS

BRIDGE NO. 1268
DWG. NO. 9

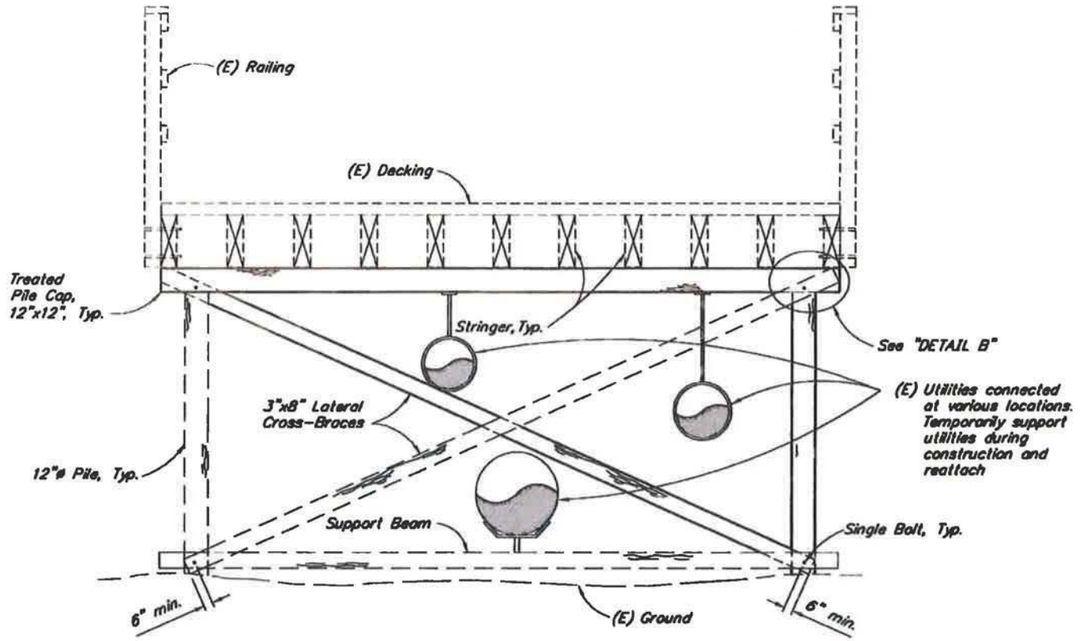
R:\cad\1268\1268 reinob 2018-DETAILS 2 Thu, Mar/22/18 08:25am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N10	N14

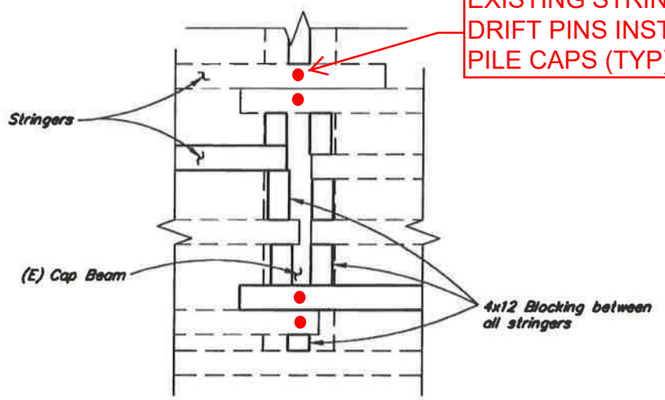
NOTE TO FUTURE DESIGNER: BECAUSE EXISTING STRINGERS PRIOR TO THIS PROJECT WERE OVERLAPPED AT PILE CAPS, RATHER THAN ABUTTED END TO END, REDISTRIBUTION OF EXISTING STRINGERS WAS TYPICALLY NOT POSSIBLE WITHOUT FIRST REMOVING EXISTING STRINGER DRIFT PINS AND CUTTING OFF THE ENDS OF THOSE STRINGERS AT THE CENTERLINE OF THE PILE CAP. NEW STRINGERS INSTALLED BY THIS PROJECT, OR EXISTING STRINGERS REDISTRIBUTED BY THIS PROJECT, ARE TYPICALLY CUT TO LENGTH FROM CENTER OF PILE CAP TO CENTER OF PILE CAP FOR EACH EACH SPAN AND ARE ABBUTED END TO END (WHICH WOULD ALLOW FOR FUTURE REDISTRIBUTION).



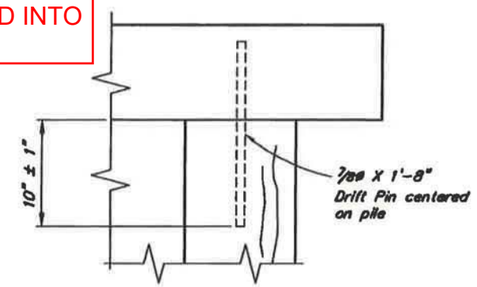
TYPICAL STRINGER LAYOUT PLAN



SECTION A-A



DETAIL C



DETAIL B

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

NOTES:

(E) = Existing

– – – = Existing

——— = Proposed

R:\civil\1265\1268 rehab 2018-Typ.Sec. Thu, Mar/22/18 06:25pm

DESIGNED BY: Nick Murray	CHECKED: Hrant Harutyunyan	REHABILITATION	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975
DRAWN BY: Ken Hase	CHECKED: Nick Murray		
QUANTITIES BY: Nick Murray	CHECKED: Hrant Harutyunyan		

STATE OF ALASKA 49TH NICHOLAS W. MURRAY 03-22-2018 9581119472 REGISTERED STRUCTURAL ENGINEER

MAIN STREET PELICAN

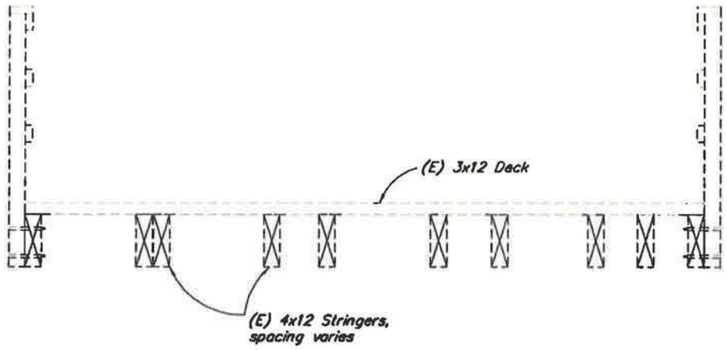
MAIN STREET

TYPICAL SECTION

BRIDGE NO. 1268

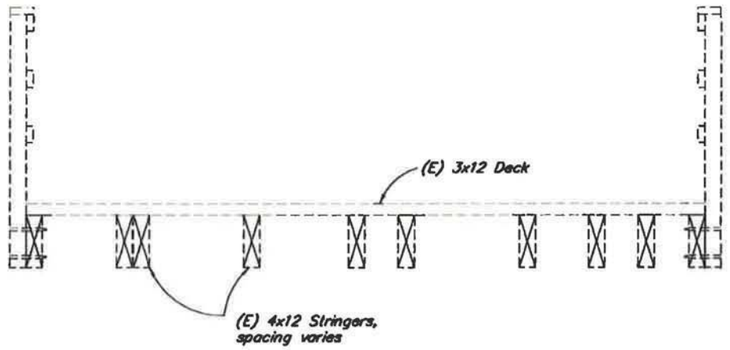
DWG. NO. 10

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N11	N14



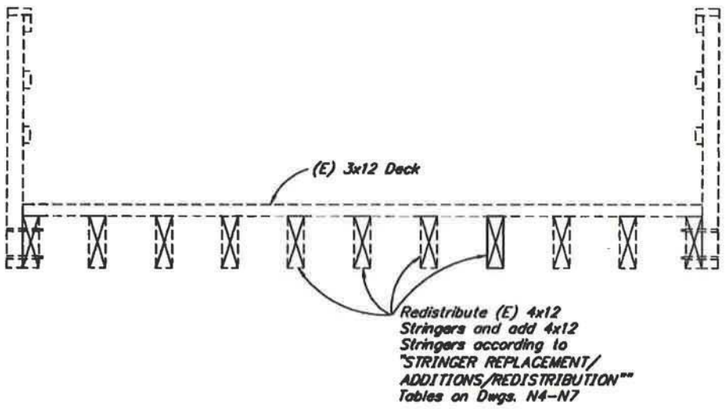
EXISTING STRINGER LAYOUT FOR SPANS < 14 FEET

12 6 0 1 2 3
In. Feet



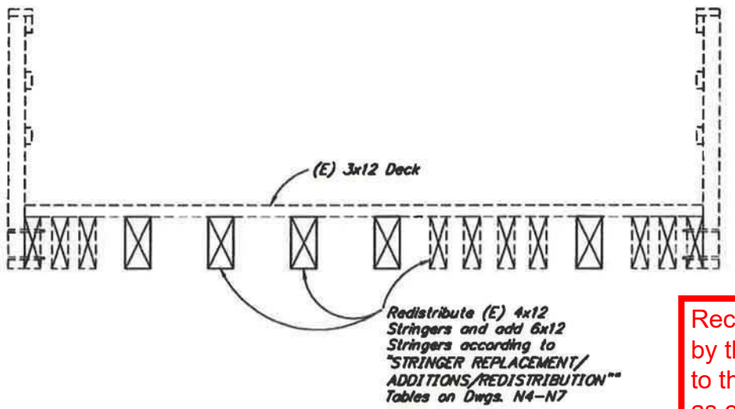
EXISTING STRINGER LAYOUT FOR SPANS ≥ 14 FEET

12 6 0 1 2 3
In. Feet



PROPOSED STRINGER LAYOUT FOR SPANS < 14 FEET

12 6 0 1 2 3
In. Feet



PROPOSED STRINGER LAYOUT FOR SPANS ≥ 14 FEET

12 6 0 1 2 3
In. Feet

NOTE TO FUTURE DESIGNER: BECAUSE EXISTING STRINGERS PRIOR TO THIS PROJECT WERE OVERLAPPED AT PILE CAPS, RATHER THAN ABUTTED END TO END, REDISTRIBUTION OF EXISTING STRINGERS WAS TYPICALLY NOT POSSIBLE WITHOUT FIRST REMOVING EXISTING STRINGER DRIFT PINS AND CUTTING OFF THE ENDS OF THOSE STRINGERS AT THE CENTERLINE OF THE PILE CAP. NEW STRINGERS INSTALLED BY THIS PROJECT, OR EXISTING STRINGERS REDISTRIBUTED BY THIS PROJECT, ARE TYPICALLY CUT TO LENGTH FROM CENTER OF PILE CAP TO CENTER OF PILE CAP FOR EACH EACH SPAN AND ARE ABBUTED END TO END (WHICH WOULD ALLOW FOR FUTURE REDISTRIBUTION).

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

NOTES:

(E) = Existing
– – – = Existing
——— = Proposed

1. See 2008 as-built sheet 27 for stringer details.
2. See 2008 as-built sheet 31 for bent dimension details.
3. See 2008 as-built sheet 25 for handrail details.
4. Boardwalk does not support adjacent decks and platforms unless specifically noted.

DESIGNED BY: Nick Murray	CHECKED: Hrant Harutyunyan	REHABILITATION
DRAWN BY: Ken Haase	CHECKED: Nick Murray	
QUANTITIES BY: Nick Murray	CHECKED: Hrant Harutyunyan	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA 49TH NICHOLAS W. MURPHY 03-22-2018 REGISTERED STRUCTURAL ENGINEER

MAIN STREET PELICAN

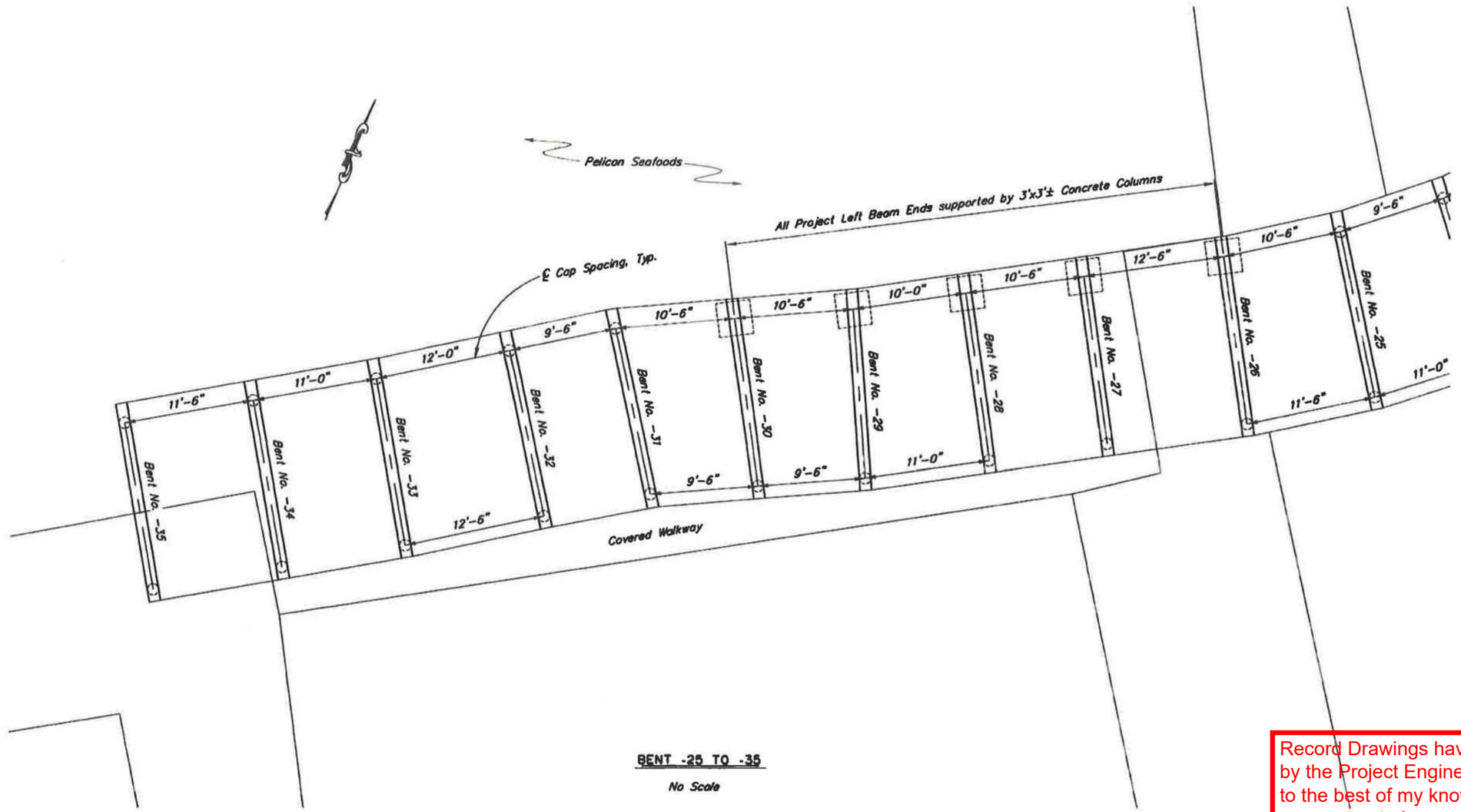
MAIN STREET

TYPICAL STRINGER LAYOUT

BRIDGE NO. 1268
DWG. NO. 11

R:\cad\1268\1268 rehab 2018-Stringer Layout Thu, Mar/22/18 08:28am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N12	N14



BENT -25 TO -35

No Scale

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

R:\cad\1268\1268 rehab 2018--25 to -35 Thu, Mar/22/18 08:26am

DESIGNED BY: Nick Murray	CHECKED: Hrant Harutyunyan	REHABILITATION	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975
DRAWN BY: Ken Hess	CHECKED: Nick Murray		
QUANTITIES BY: Nick Murray	CHECKED: Hrant Harutyunyan		

STATE OF ALASKA 49TH STATE NICHOLAS W. MURRAY 03-22-2018 SEW 11047 REGISTERED STRUCTURAL ENGINEER

MAIN STREET PELICAN

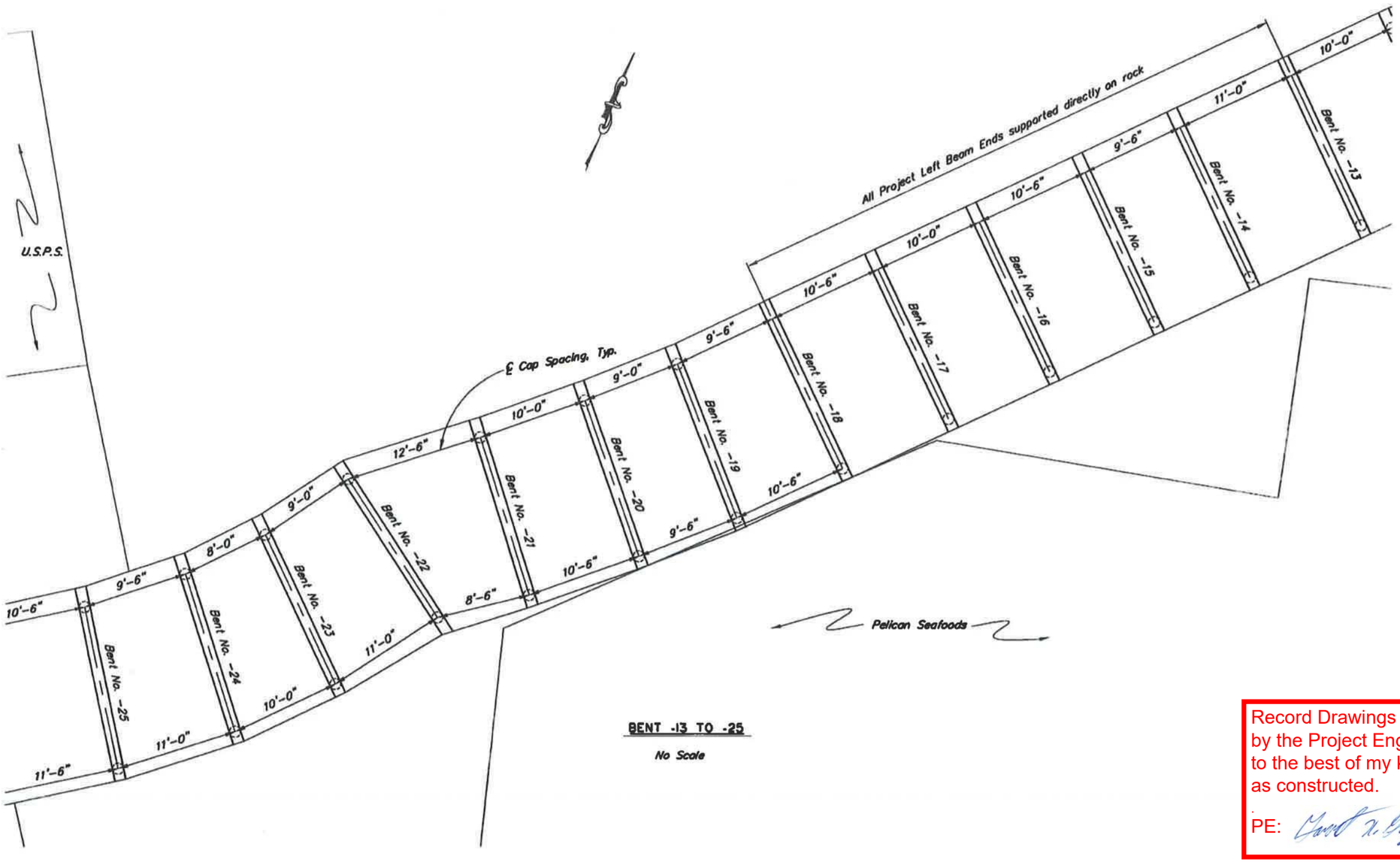
MAIN STREET

BENTS -25 TO -35 AS-BUILT

BRIDGE NO. 1268

DWG. NO. 12

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N13	N14



BENT -13 TO -25

No Scale

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

R:\cad\1268\1268 rehab 2018--13 to -25 Thu, Mar/22/18 08:26am

DESIGNED BY: Nick Murray	CHECKED: Grant Harutyunyan	REHABILITATION	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975
DRAWN BY: Ken Hess	CHECKED: Nick Murray		
QUANTITIES BY: Nick Murray	CHECKED: Grant Harutyunyan		

STATE OF ALASKA 49TH
NICHOLAS W. MURRAY
03.23.2018
SEW 11942
REGISTERED ENGINEER

MAIN STREET PELICAN

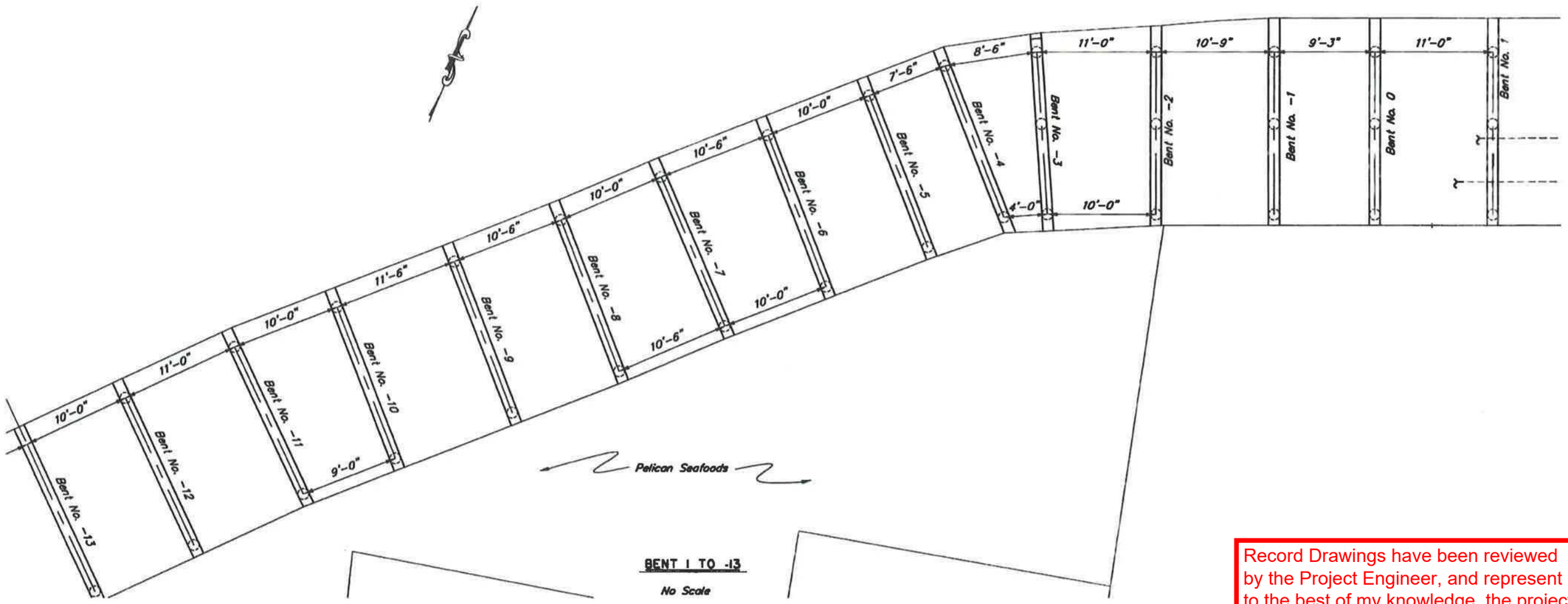
MAIN STREET

BENTS -13 TO -25 AS-BUILT

BRIDGE NO. 1268

DWG. NO. 13

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00063	2018	N14	N14



BENT 1 TO -13

No Scale

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

R:\cad\1265\1268 rehab 2018---13 to 1 Thu, Mar/22/18 06:26am

DESIGNED BY: Nick Murray	CHECKED: Hrant Harutyunyan		
DRAWN BY: Ken Haas	CHECKED: Nick Murray		
QUANTITIES BY: Nick Murray	CHECKED: Hrant Harutyunyan		

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA
NICHOLAS W. MURRAY
03-22-2018
REGISTERED STRUCTURAL ENGINEER

MAIN STREET PELICAN

MAIN STREET

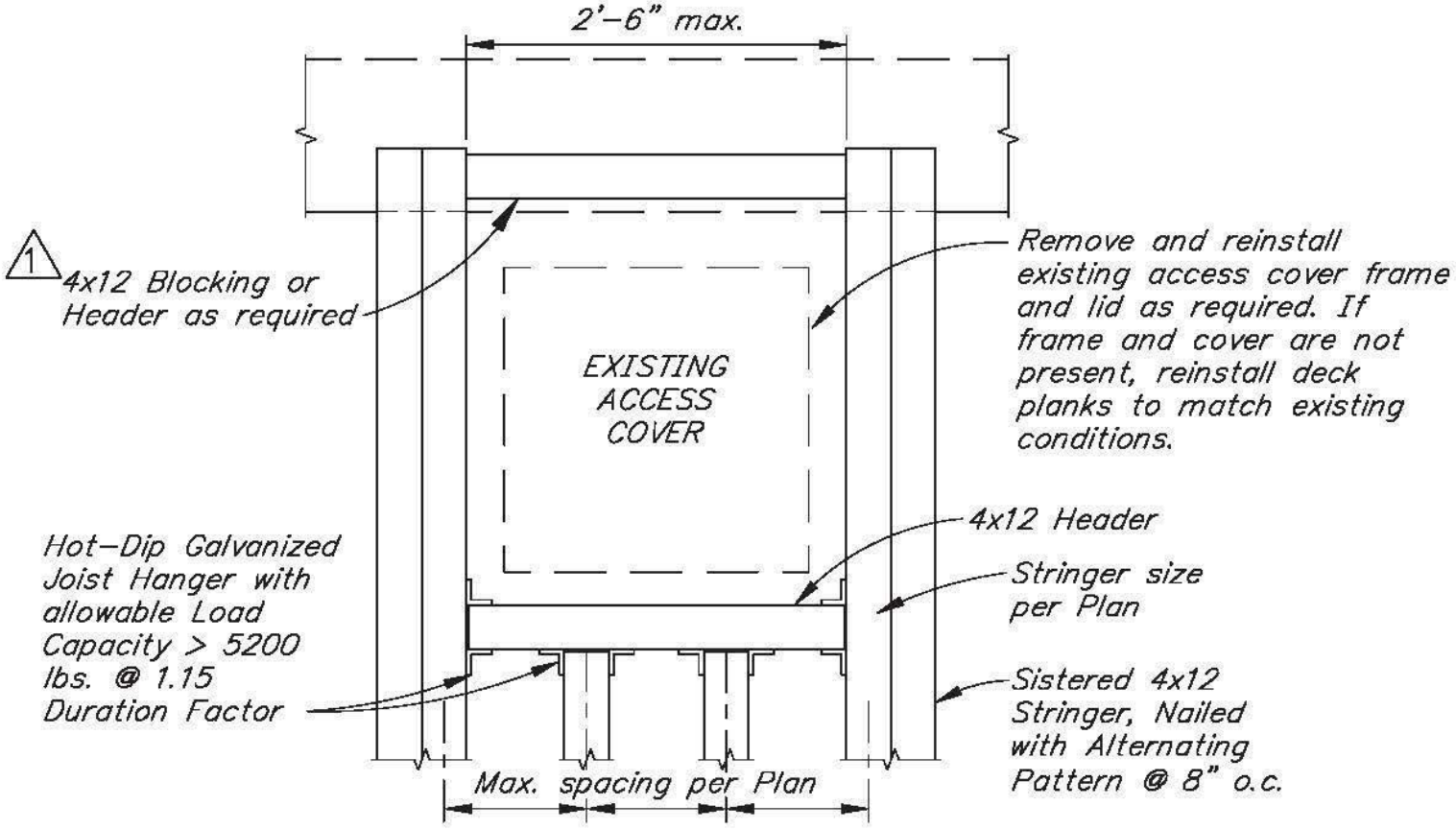
BENTS 1 TO -13 AS-BUILT

BRIDGE NO. 1268
DWG. NO. 14

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

Pelican Main Street Bridge No.1268 Improvements
SFHWY00063/0003205
Change Order 4 Attachment 1



SEWER CLEAN OUT BLOCKING

REVISIONS			
No.	Date	By	Description
1	11/26/18	NWM	BLOCKING AT CAP

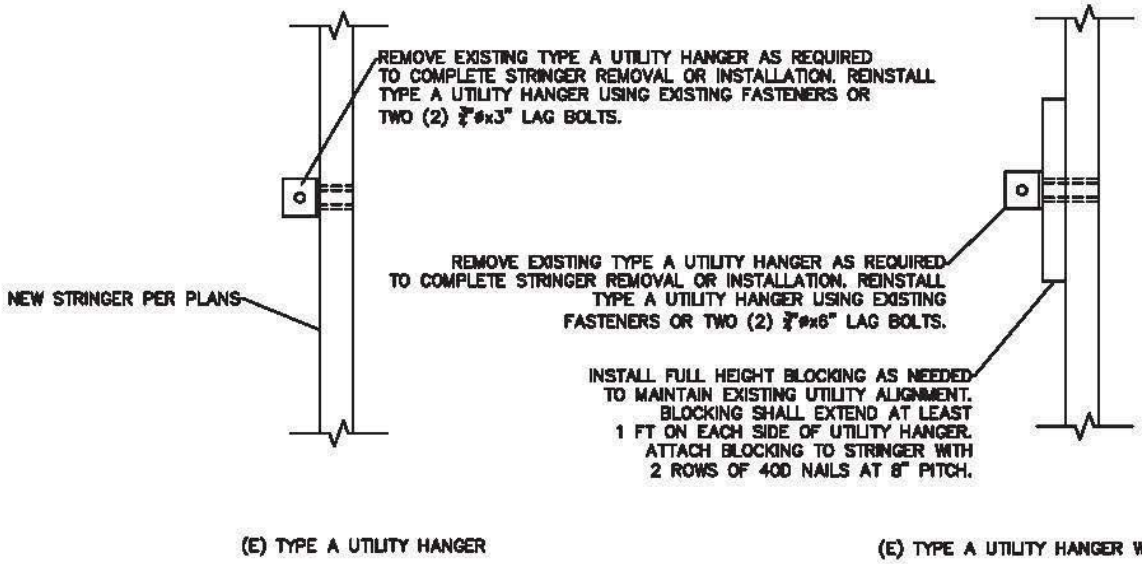
STATE OF ALASKA
49TH
NICHOLAS W. MURRAY
11-26-2018
SE# 119472
REGISTERED STRUCTURAL ENGINEER

STATE OF ALASKA
Department of Transportation and Public Facilities
BRIDGE DESIGN

SEWER CLEANOUT BLOCKING

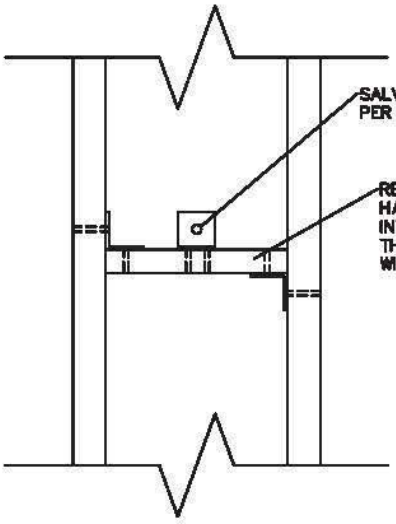
MAIN STREET PELICAN, #1268

DATE: 11-26-2018 | Sheet 1 of 1



(E) TYPE A UTILITY HANGER

(E) TYPE A UTILITY HANGER WITH BLOCKING

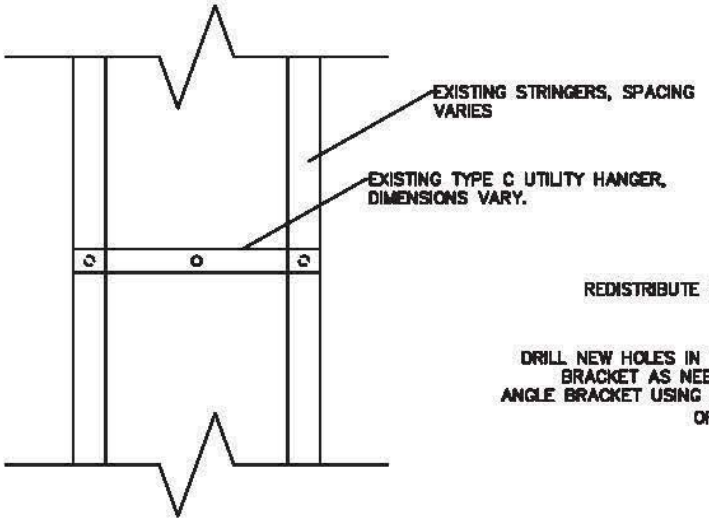


(E) TYPE B UTILITY HANGER

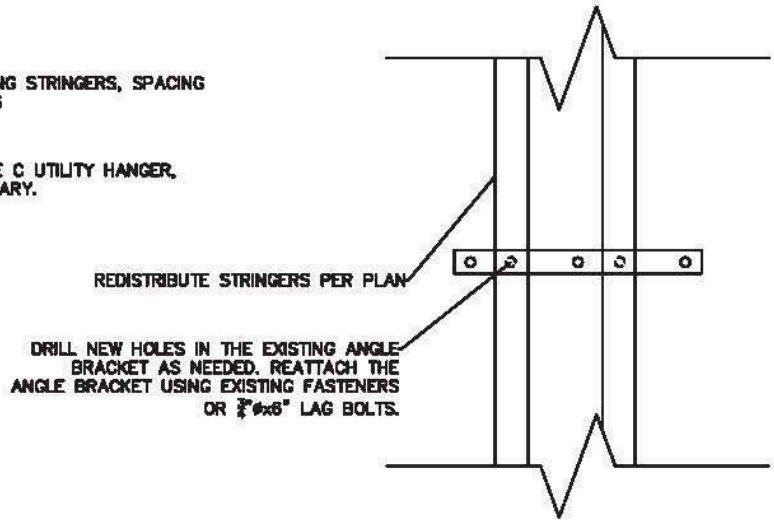
STATE OF ALASKA
Nicholas W. Murray
CE-107613
REGISTERED PROFESSIONAL ENGINEER
2/5/19

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020



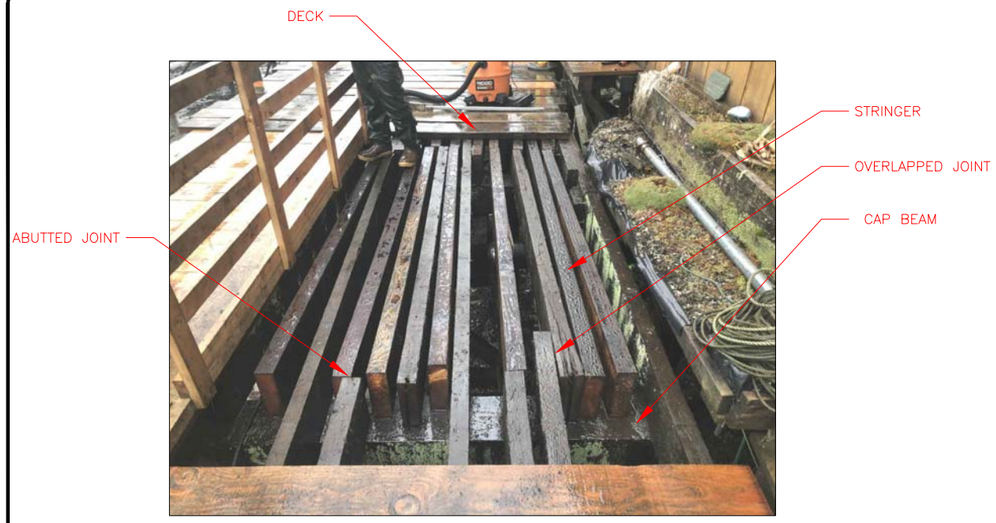
(E) UTILITY HANGER TYPE C

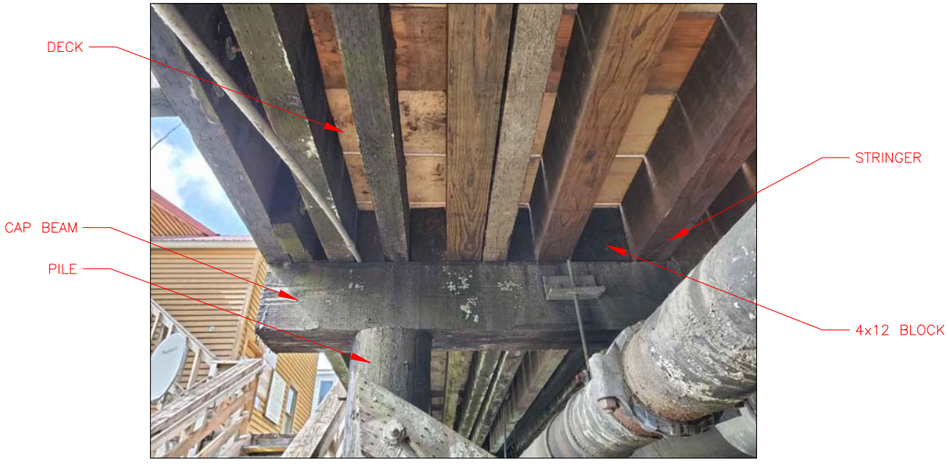


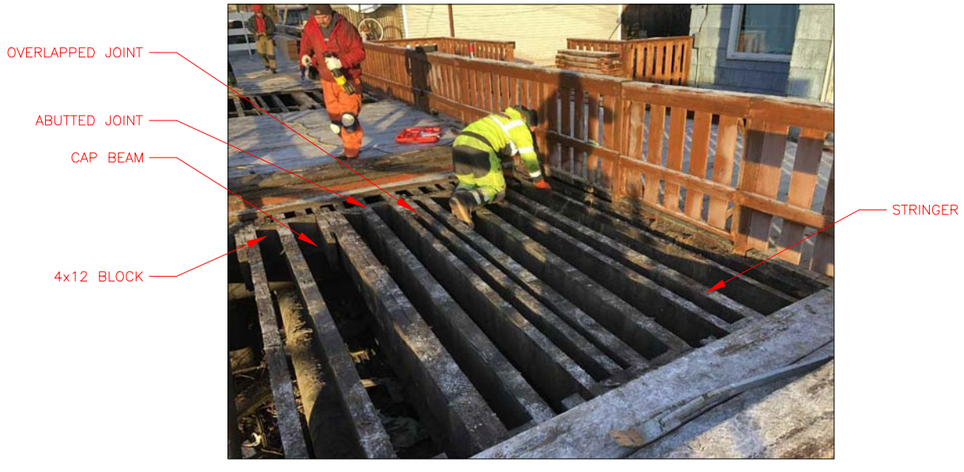
UTILITY HANGER TYPE C

PELICAN MAIN STREET BRIDGE NO. 1268 IMPROVEMENTS
SFHWY00063/0003205
REQUEST FOR PROPOSAL NO. 5

Pelican Main Street Bridge No.1268 Improvements
SFHWY00063/0003205
Change Order 4 Attachment 2







1/1 TYPICAL STRINGER LAYOUT
SCALE: NOT TO SCALE

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE: Date: 4/06/2020

RECORD OF REVISIONS			
No.	DATE	DESCRIPTION	BY

proHNS LLC
CERTIFICATE OF AUTHORIZATION #100662

1945 ALEX HOLDEN WAY #101
JUNEAU, AK 99801
solutions@proHNS.com
www.proHNS.com

DRAWN BY:	J. FLEETWOOD
DESIGNED BY:	J.FLEETWOOD
CHECKED BY:	G. GLADSJO

MAIN STREET PELICAN

NO. 0003205 / SFHWY00063

SUPPLEMENTAL AS-BUILT INFORMATION

SHEET NUMBER 1 OF 1

April 2, 2020

C:\Users\Jake Fleetwood\Dropbox (proHNS)\Projects\Pelican\Pelican Main Street Bridge Improvements\Fleetwood Autocad Folder\Caps detail.dwg